

FIG.1



FIG. 3

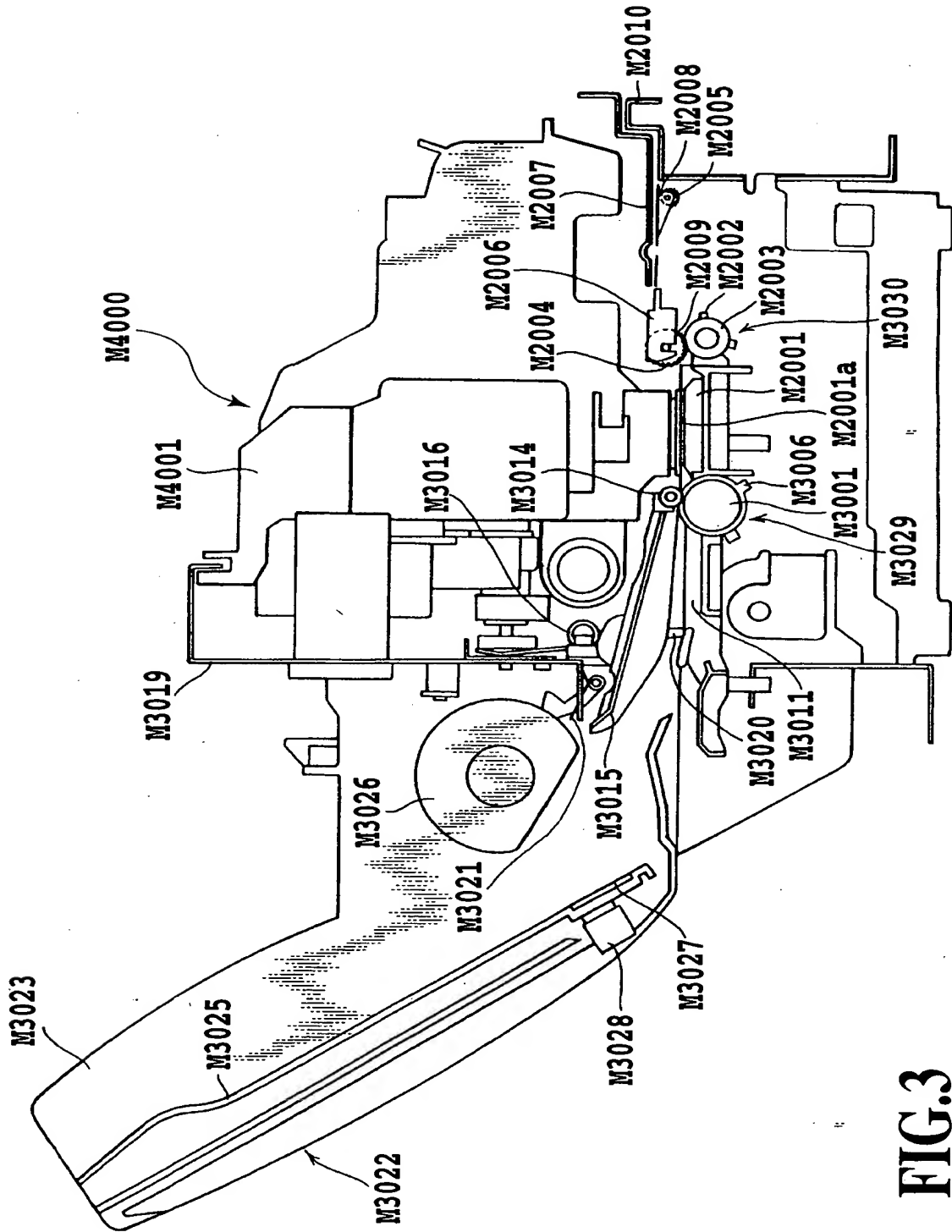


FIG. 3

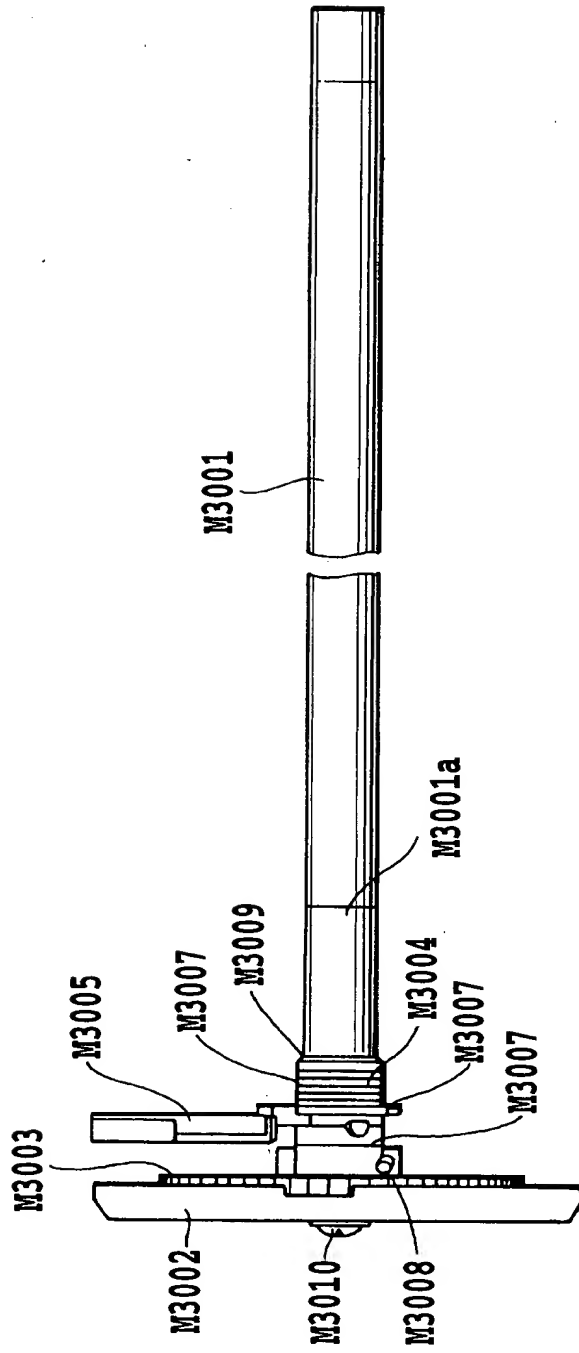


FIG.4

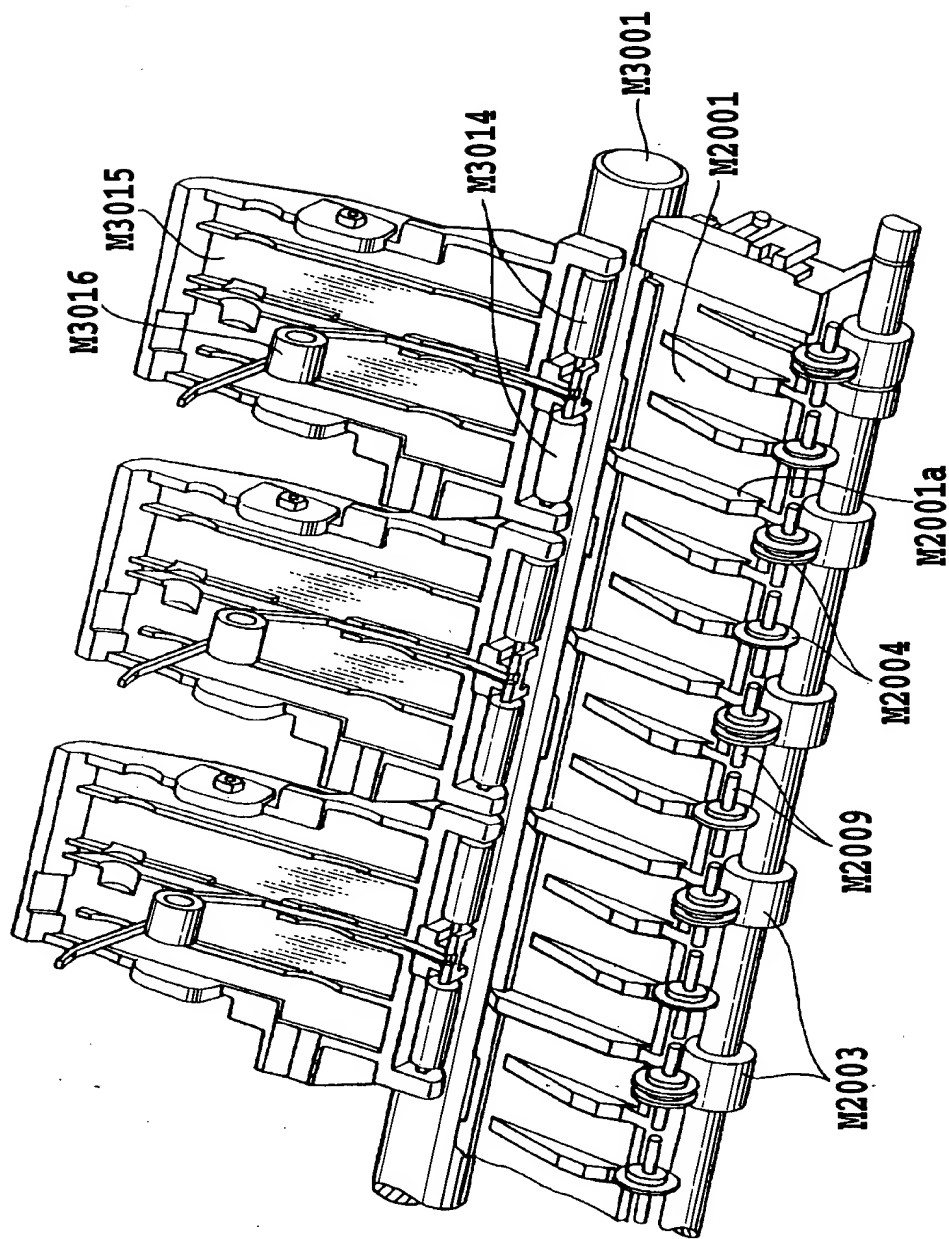


FIG.5

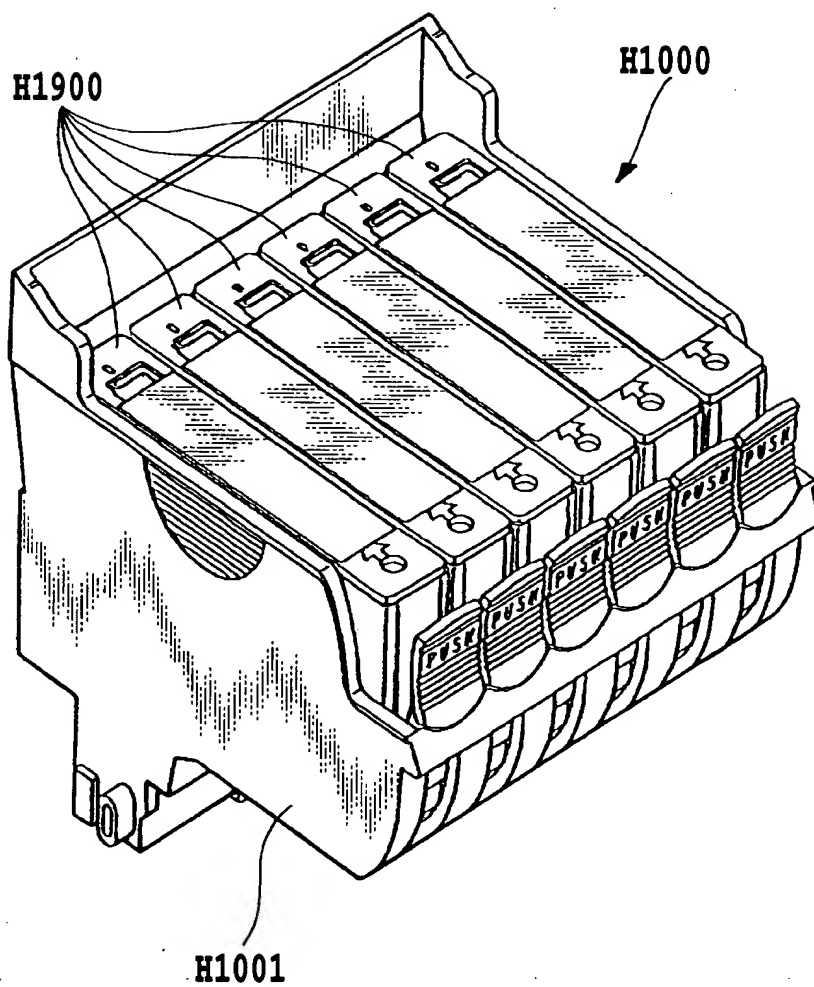


FIG.6

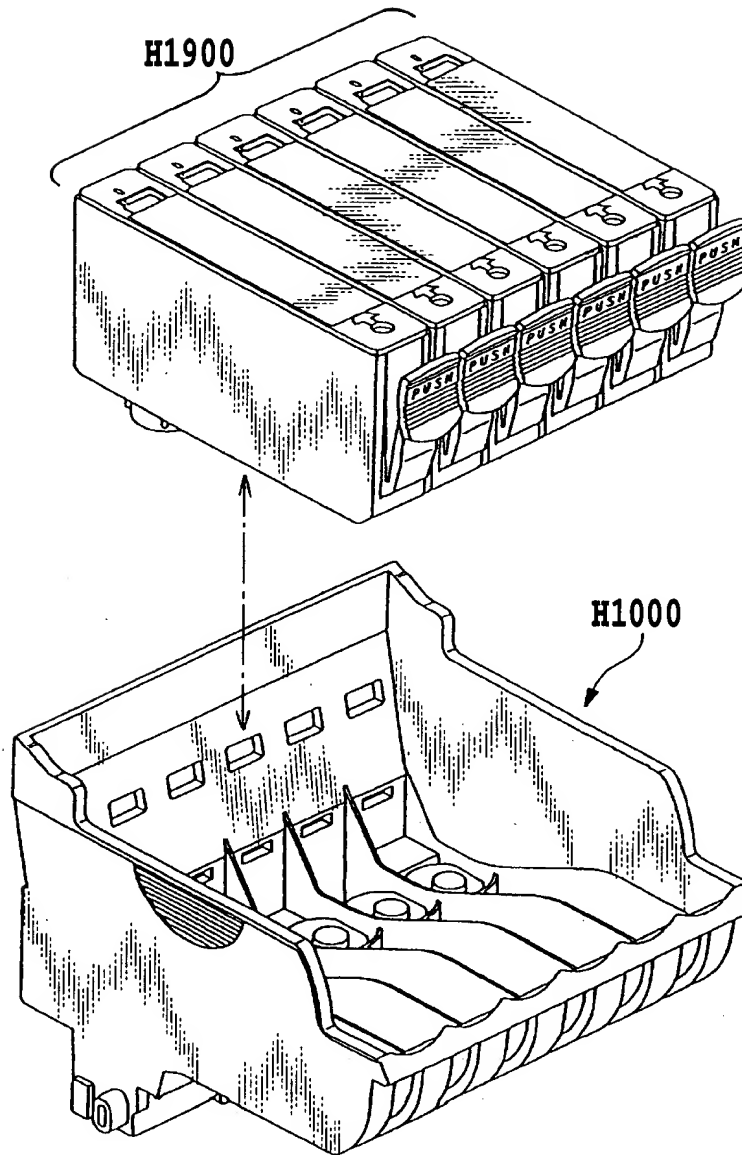


FIG.7

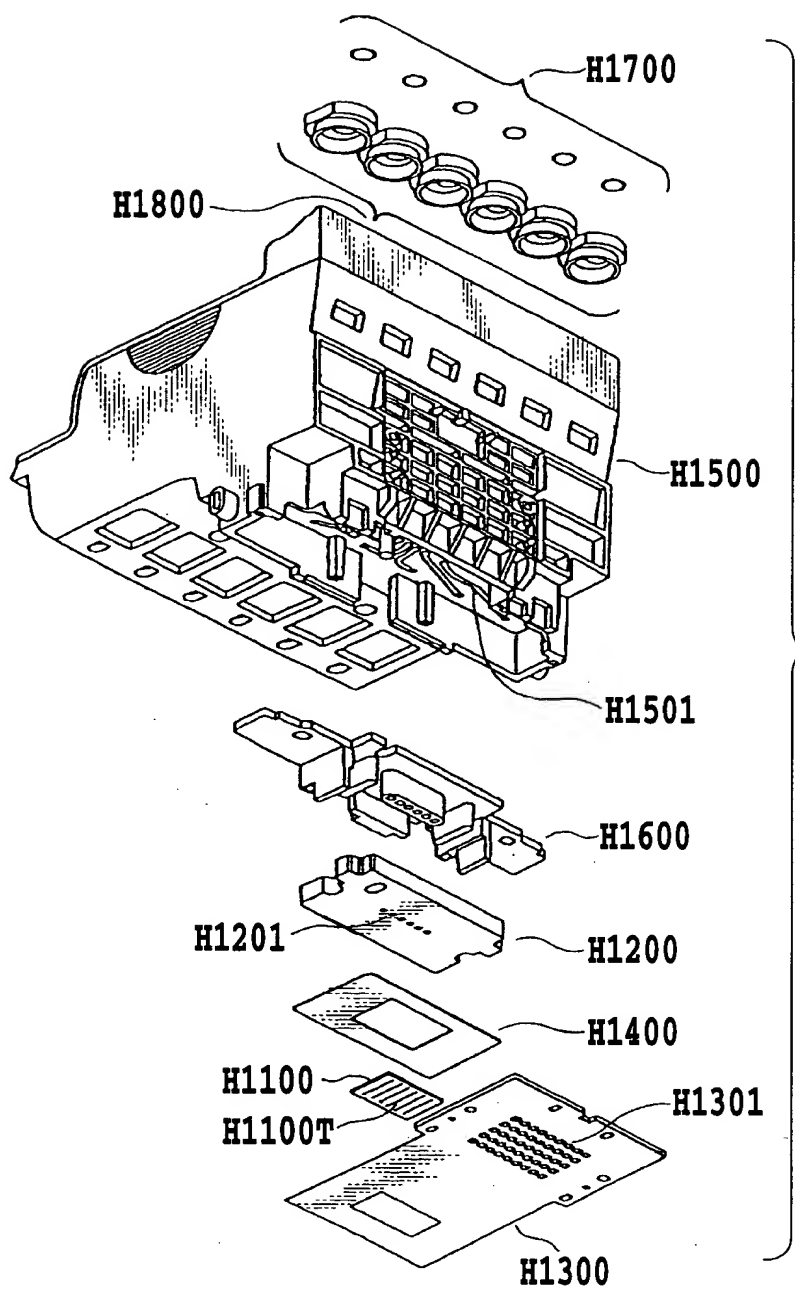


FIG.8

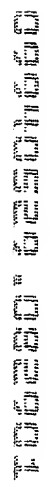


FIG. 9

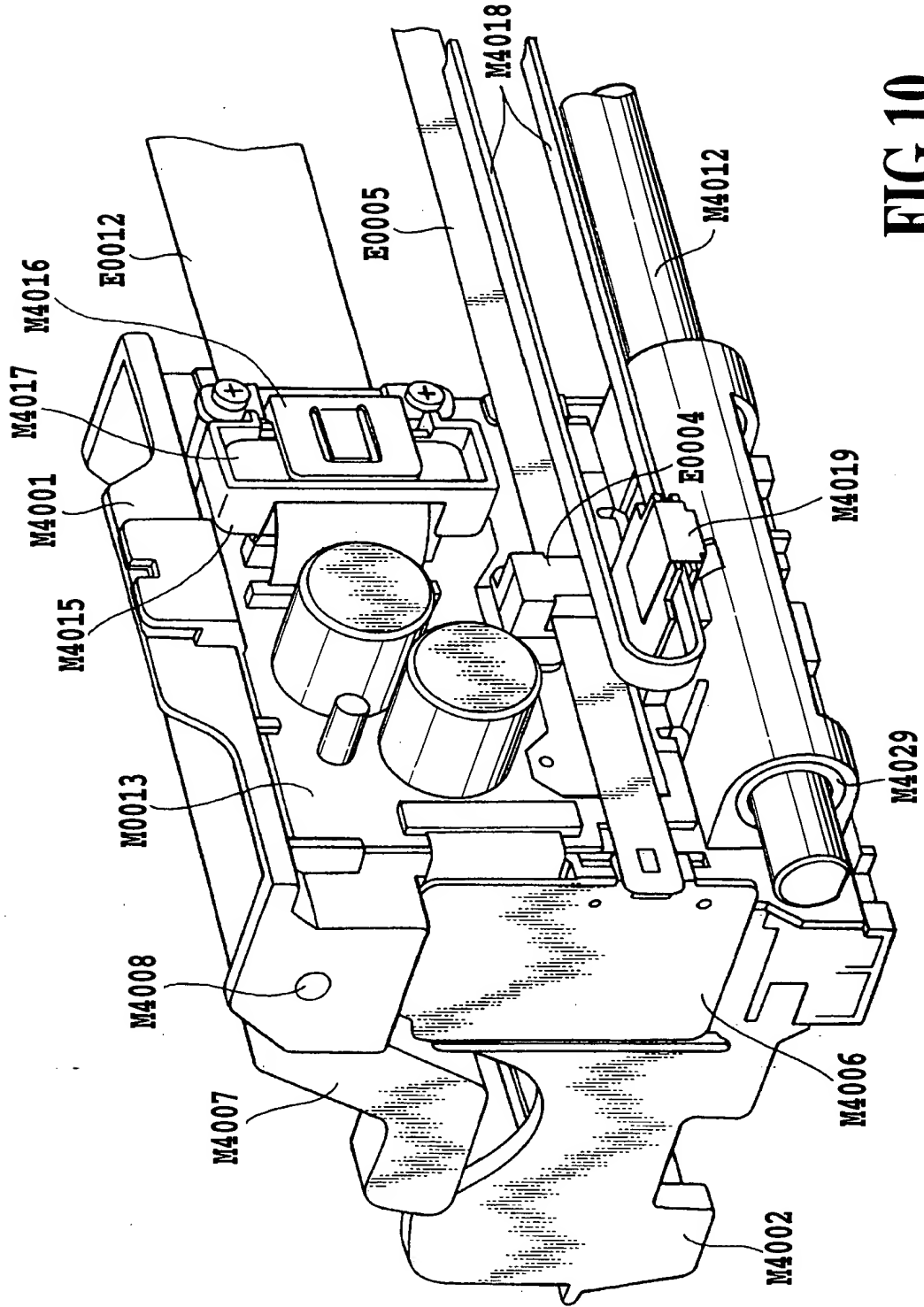


FIG.10

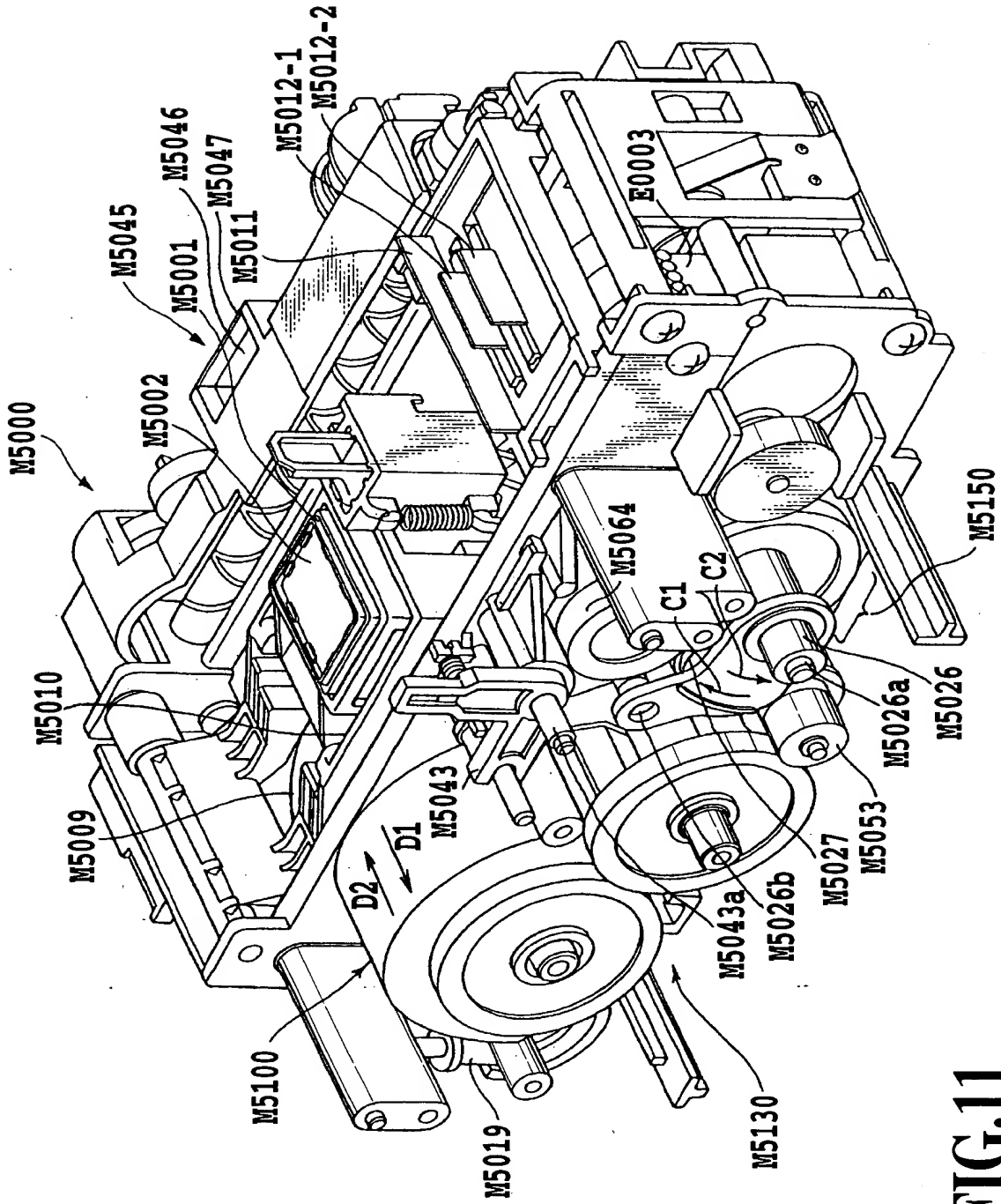


FIG.11



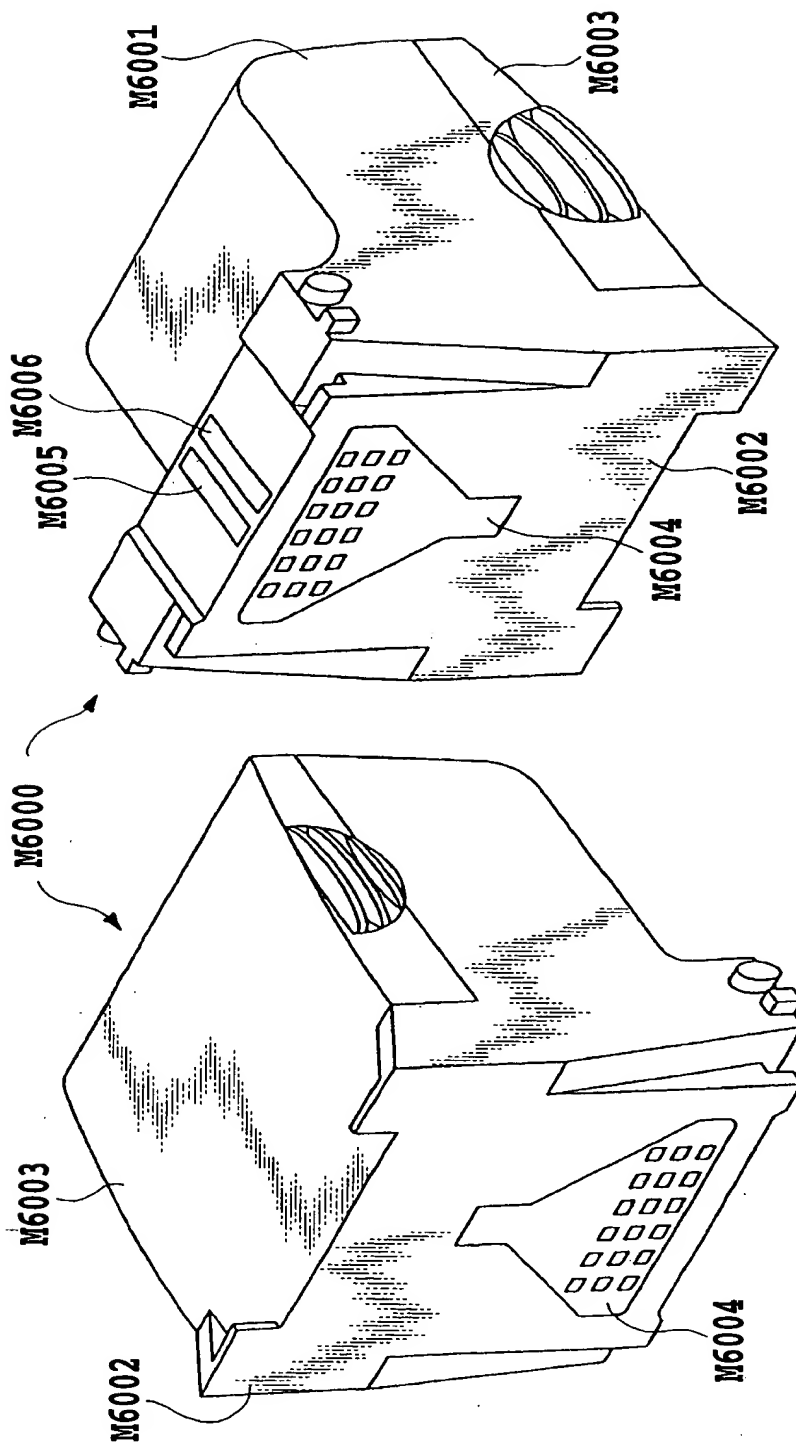


FIG.13B

FIG.13A

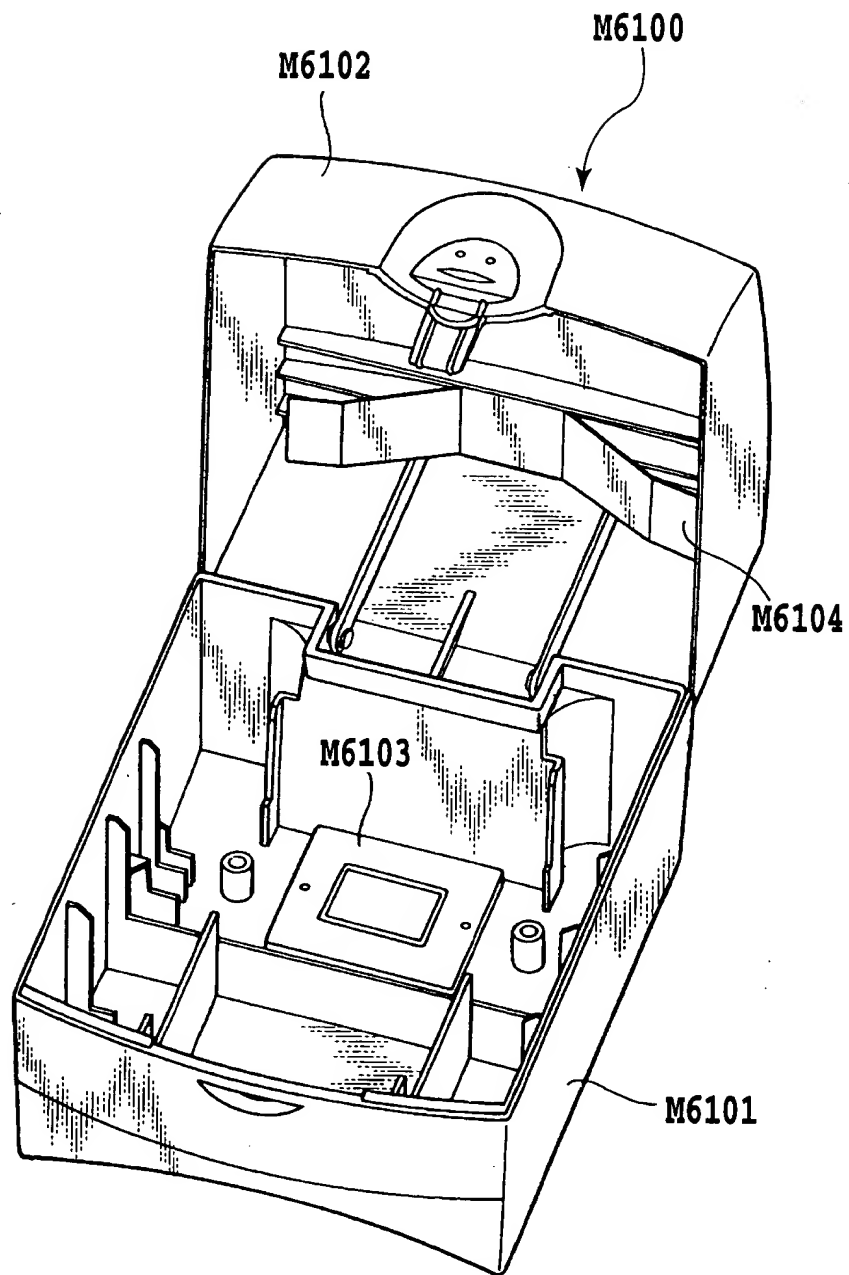


FIG.14

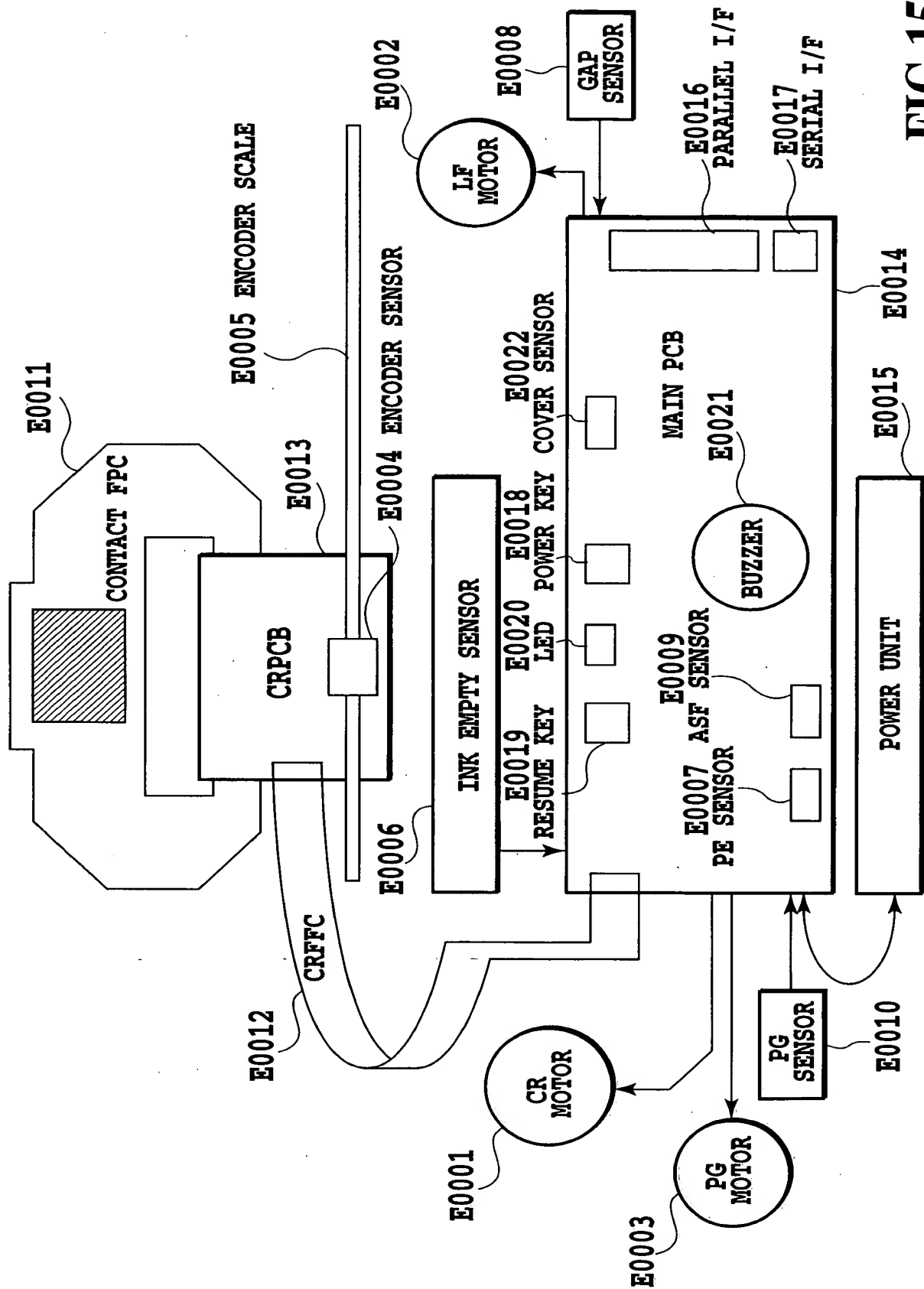


FIG.15

FIG.16

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FIG.16A FIG.16B

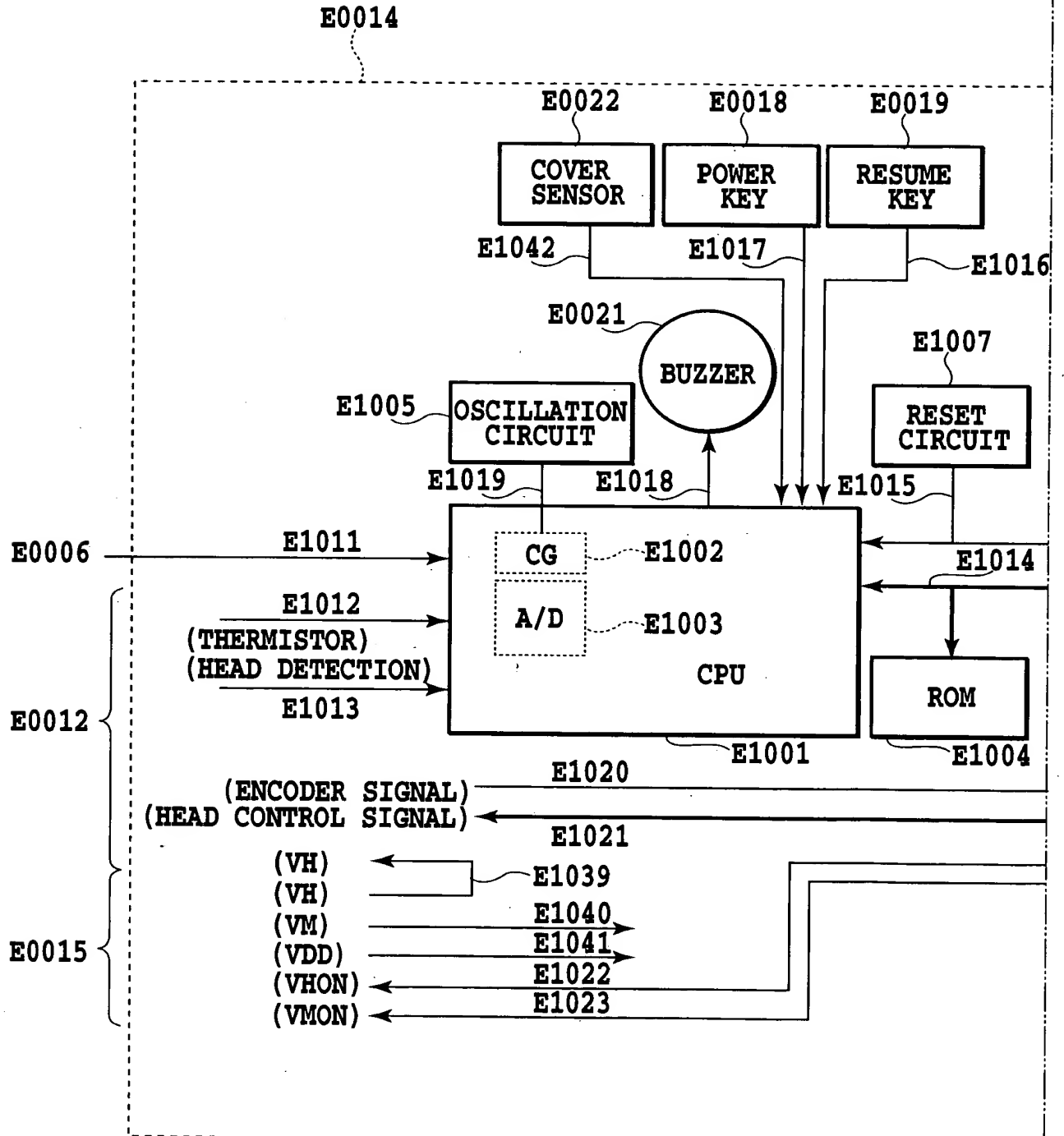


FIG.16A

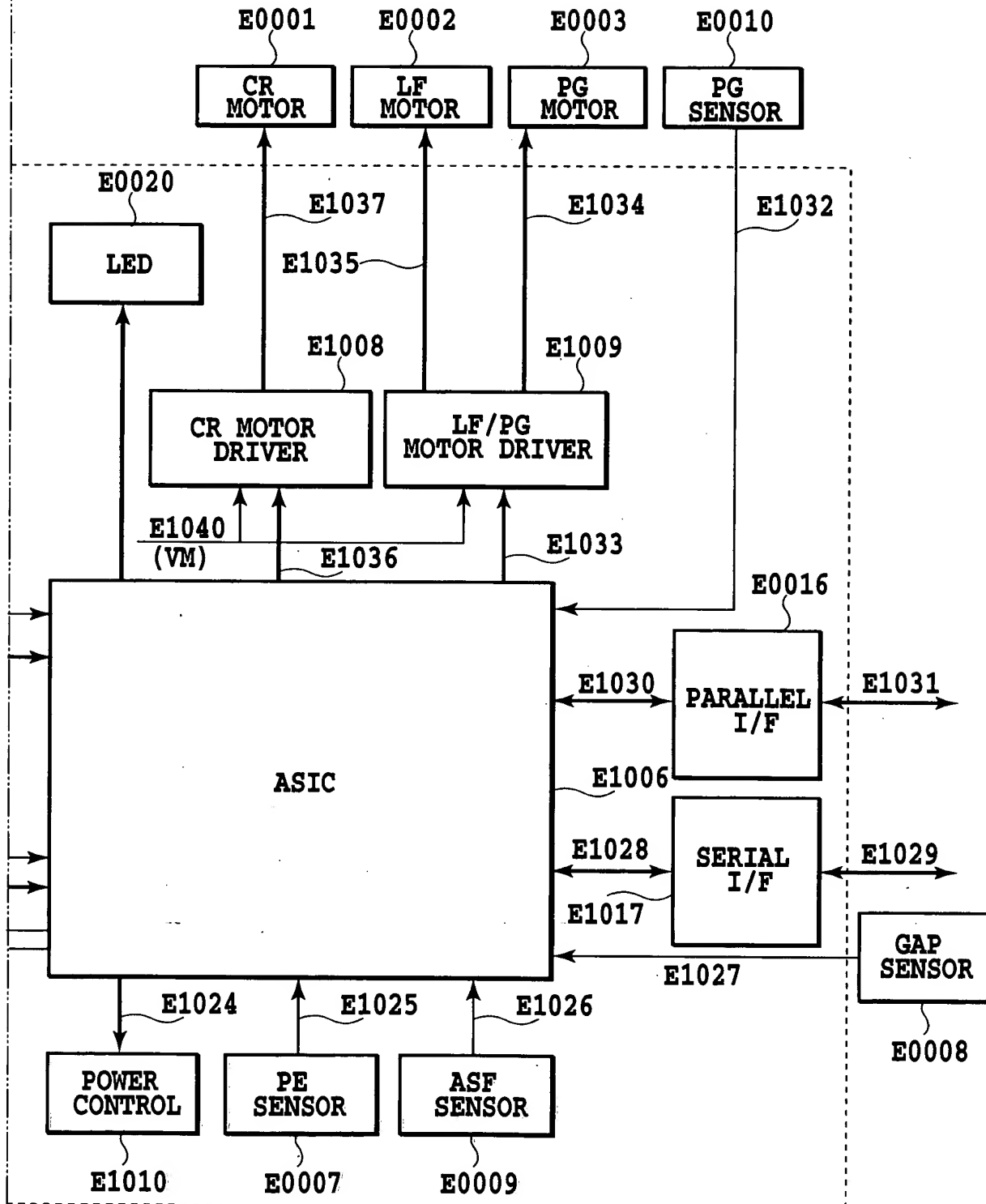


FIG.16B

FIG.17

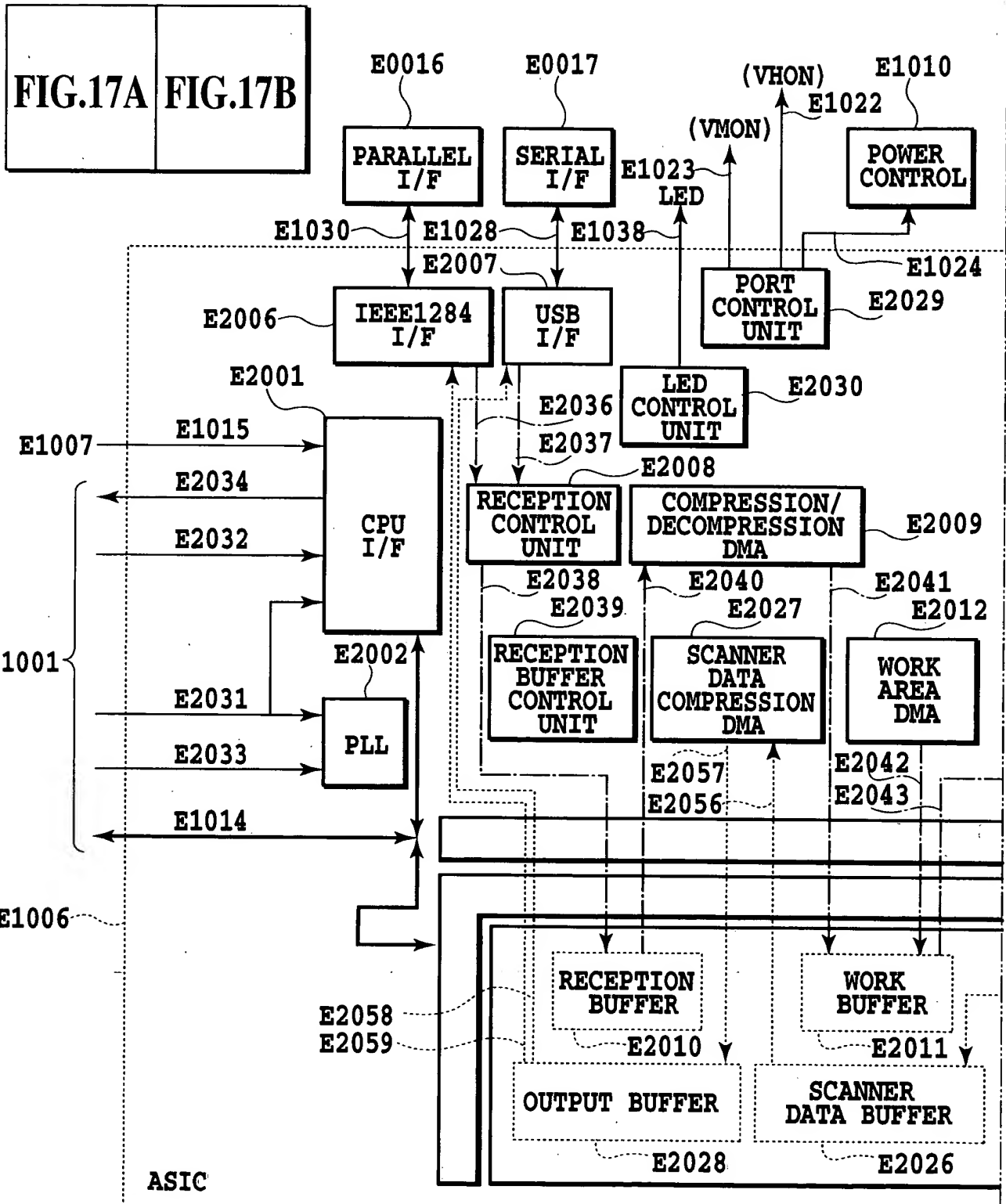


FIG.17A

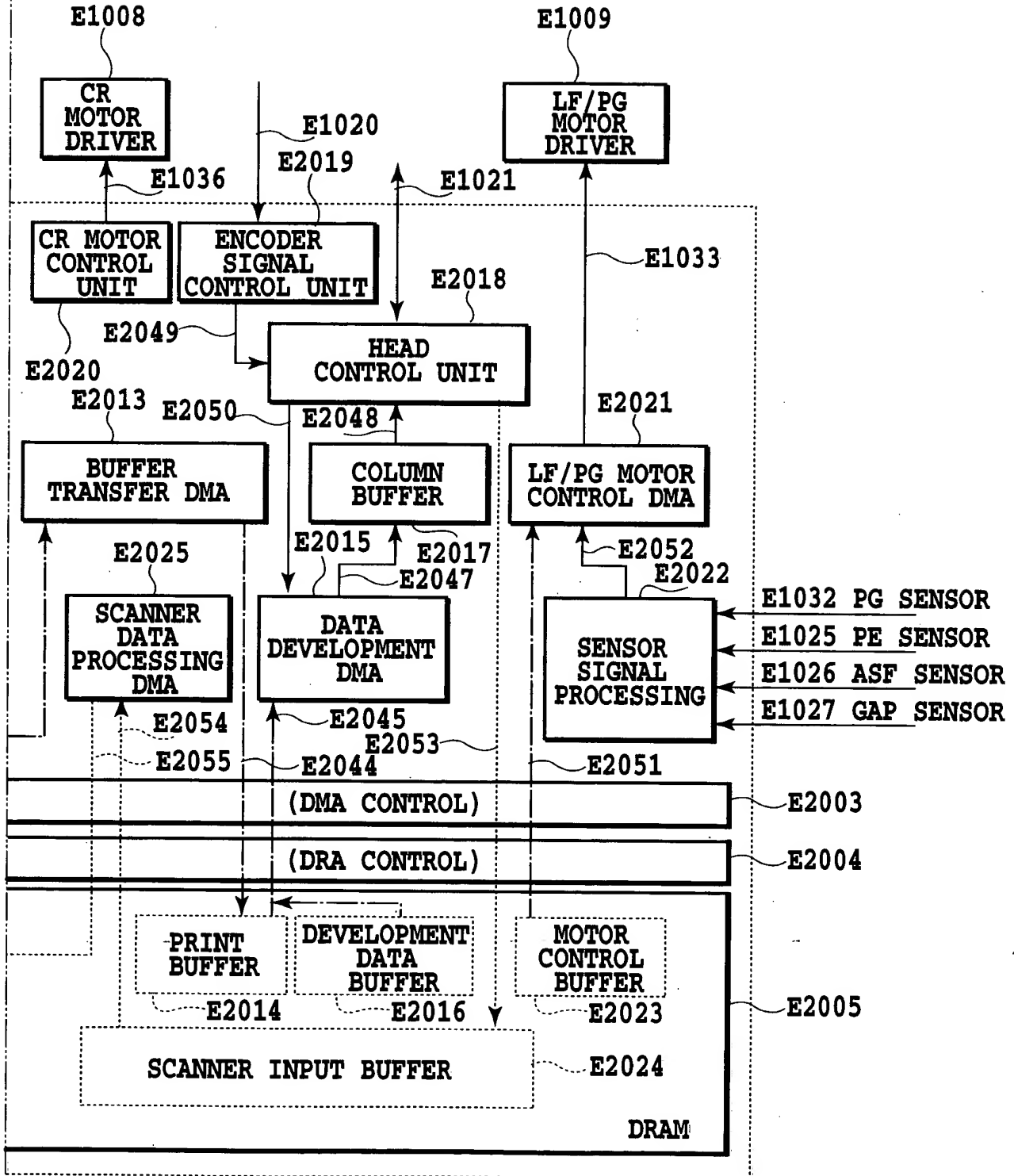


FIG.17B

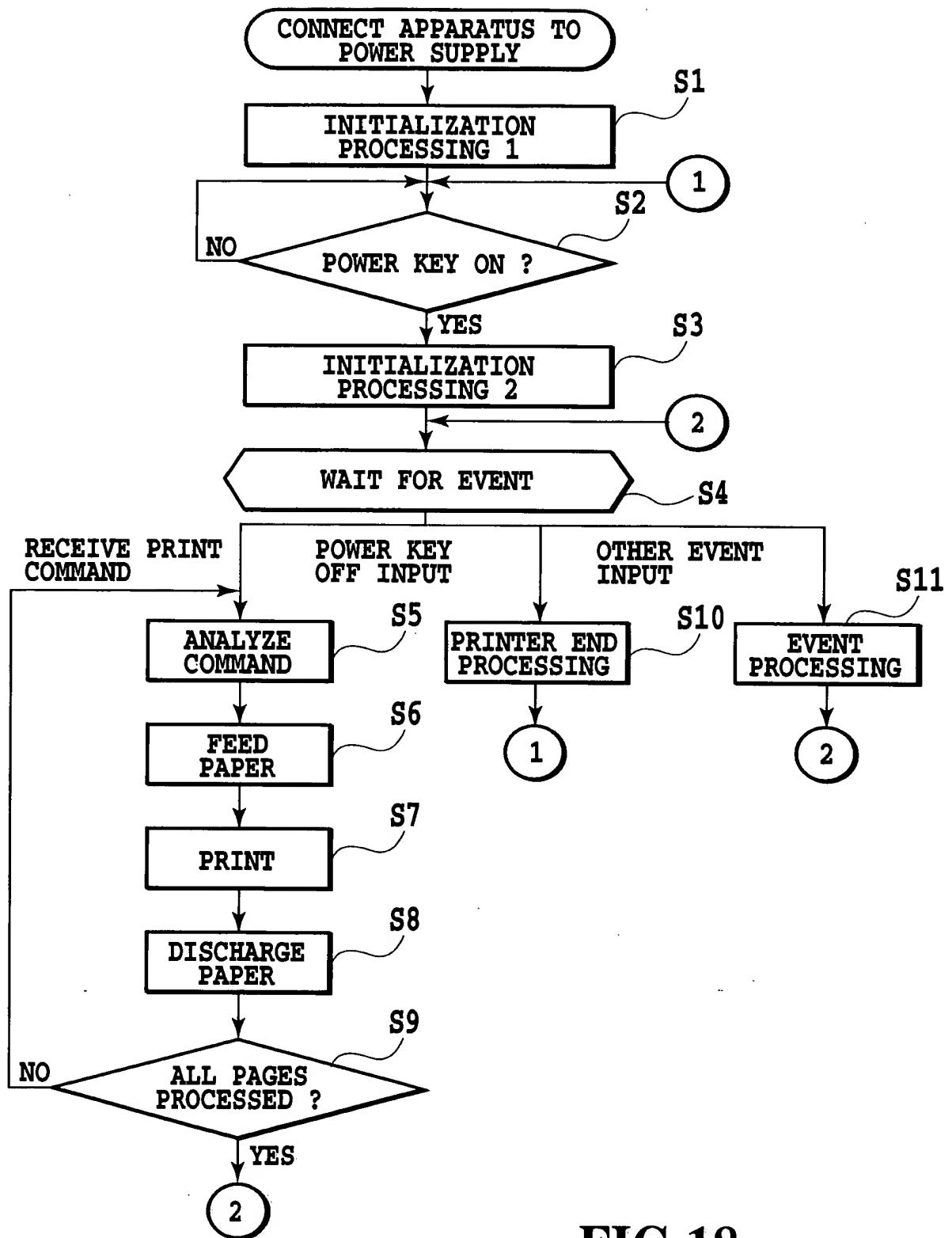
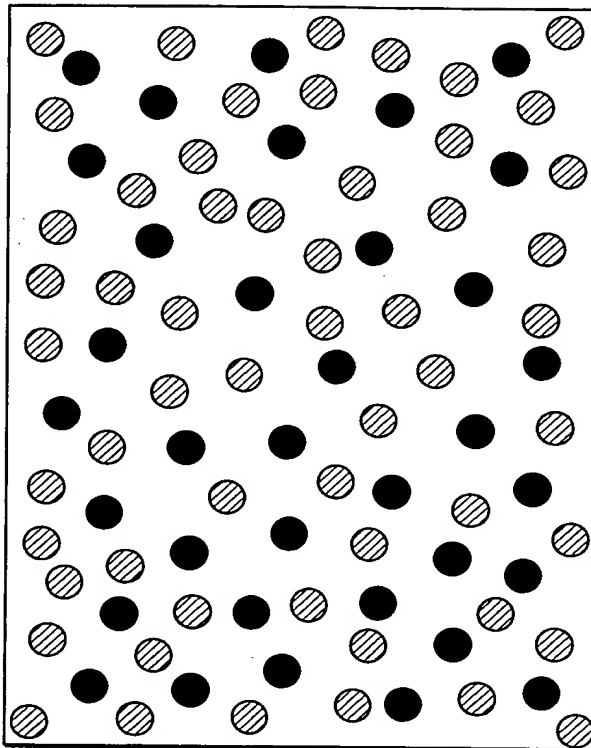


FIG.18

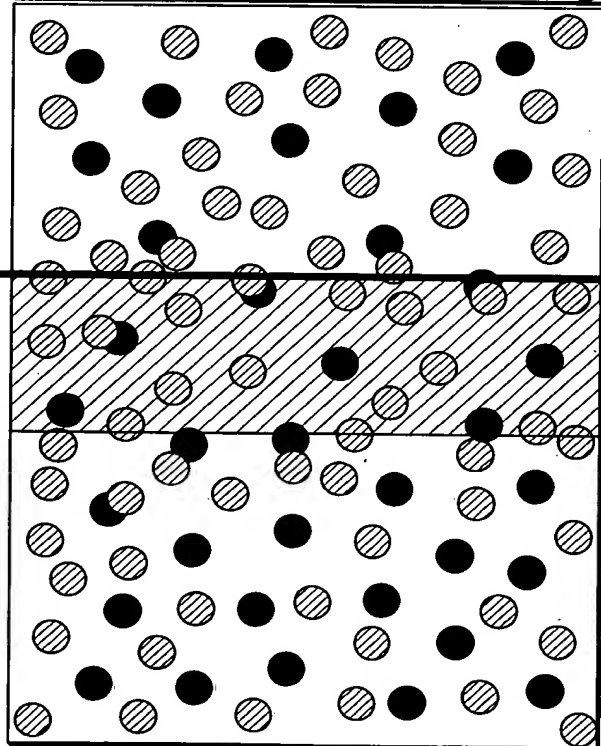
PATCH PRINTED ON
AREA OF SHEET
WHICH IS ENSURED
THAT SHEET IS FED
ACCURATELY
(FIRST AREA)

FIG.19A



PATCH PRINTED ON
AREA OF SHEET
WHICH IS NOT
ENSURED
THAT SHEET IS FED
ACCURATELY
(SECOND AREA)

FIG.19B



WHITE
STRIPE



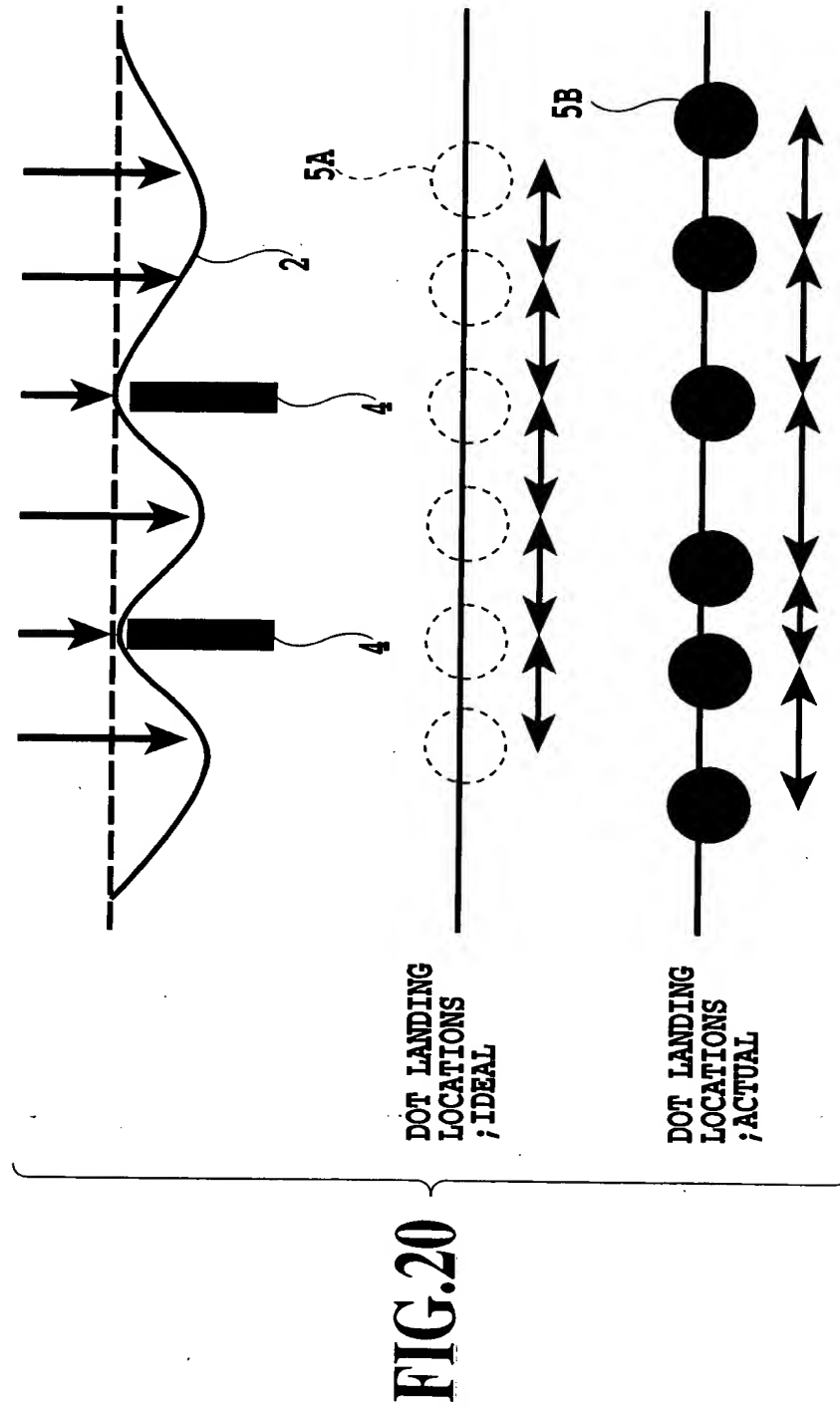
WHITE
STRIPE



DOTS FORMED
IN FIRST
PASS



DOTS FORMED
IN SECOND
PASS



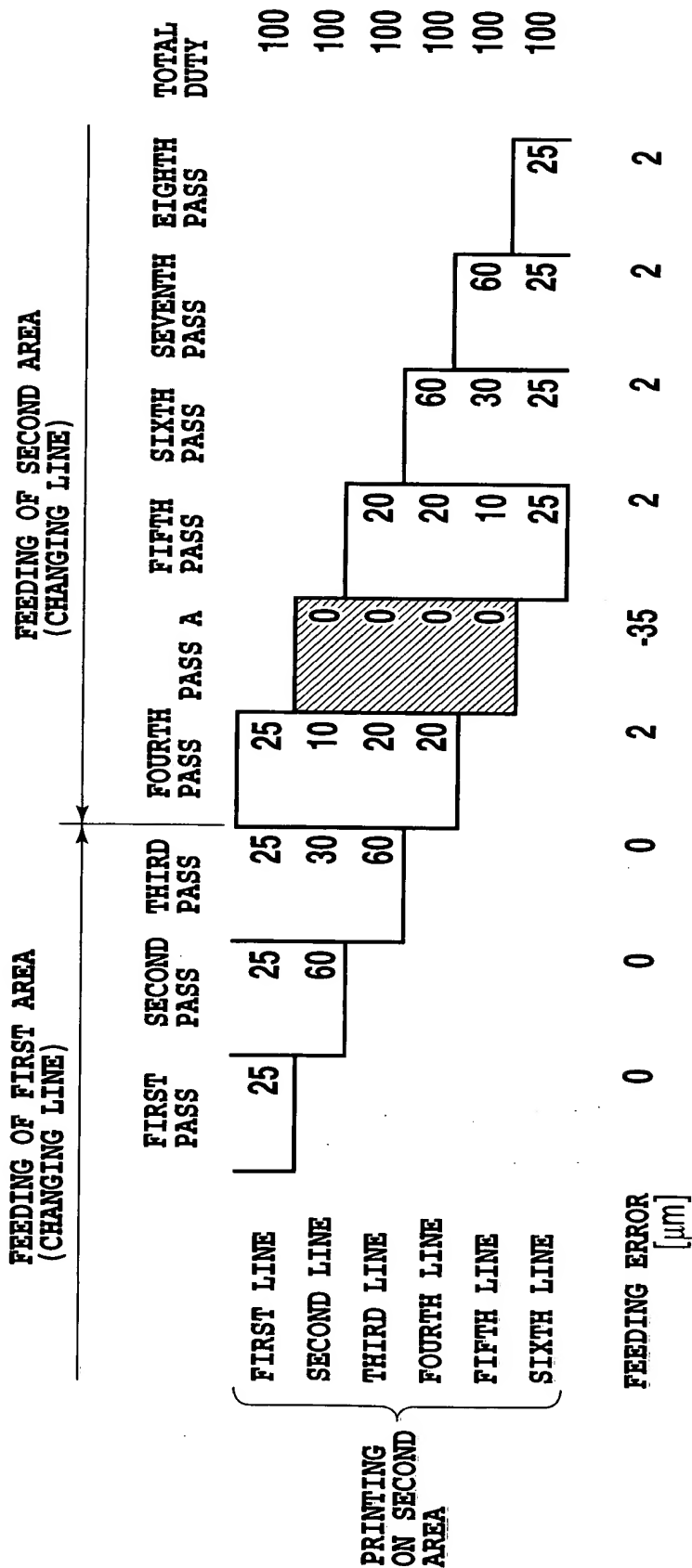


FIG.21

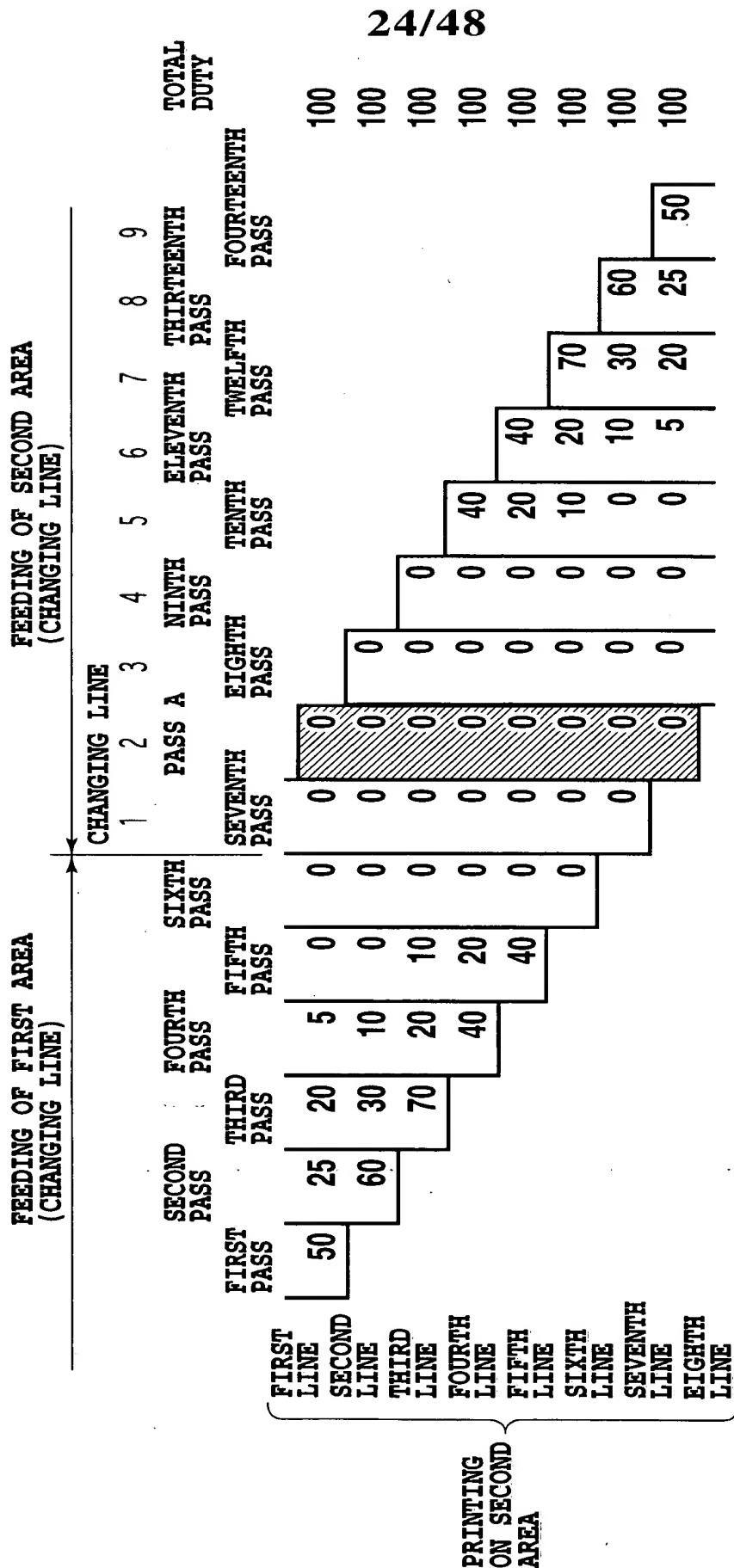
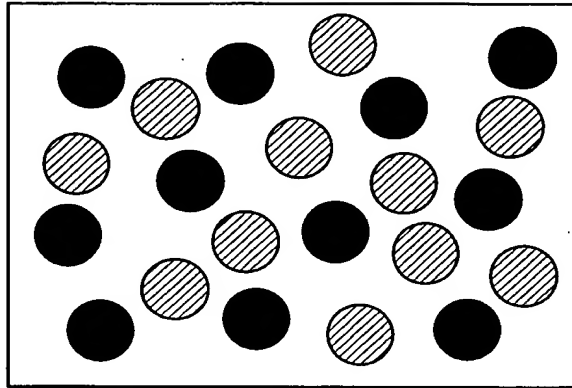


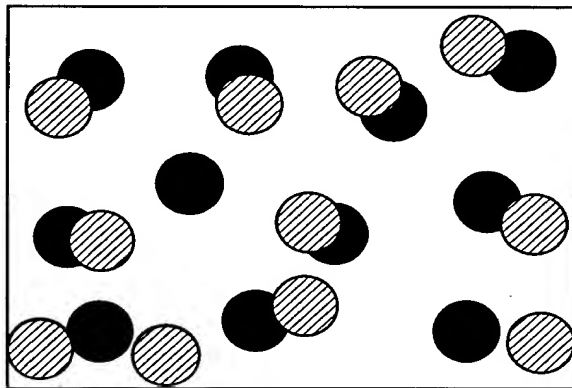
FIG.22

FIG.23A



DOT FORMATION WITHOUT
DEVIATION OF DOTS

FIG.23B



DOT FORMATION WITH
DEVIATION OF DOTS
CAUSED BY FEEDING ERROR




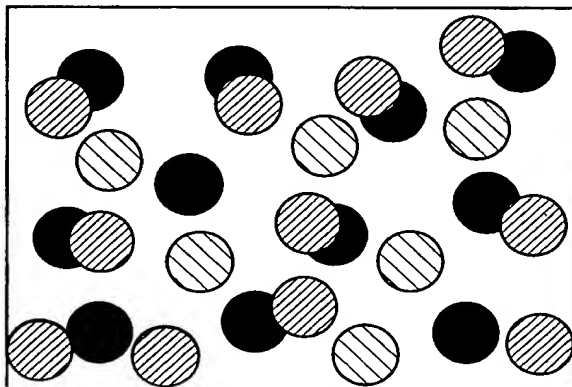
-  DOTS FORMED
IN FIRST PASS
-  DOTS FORMED
IN SECOND PASS
-  NOISE DOTS

FIG.23C



DOT FORMATION OBTAINED
BY ADDING NOISE DOTS
TO THAT OF FIG.23B

106280" 62504600

TOP SECRET

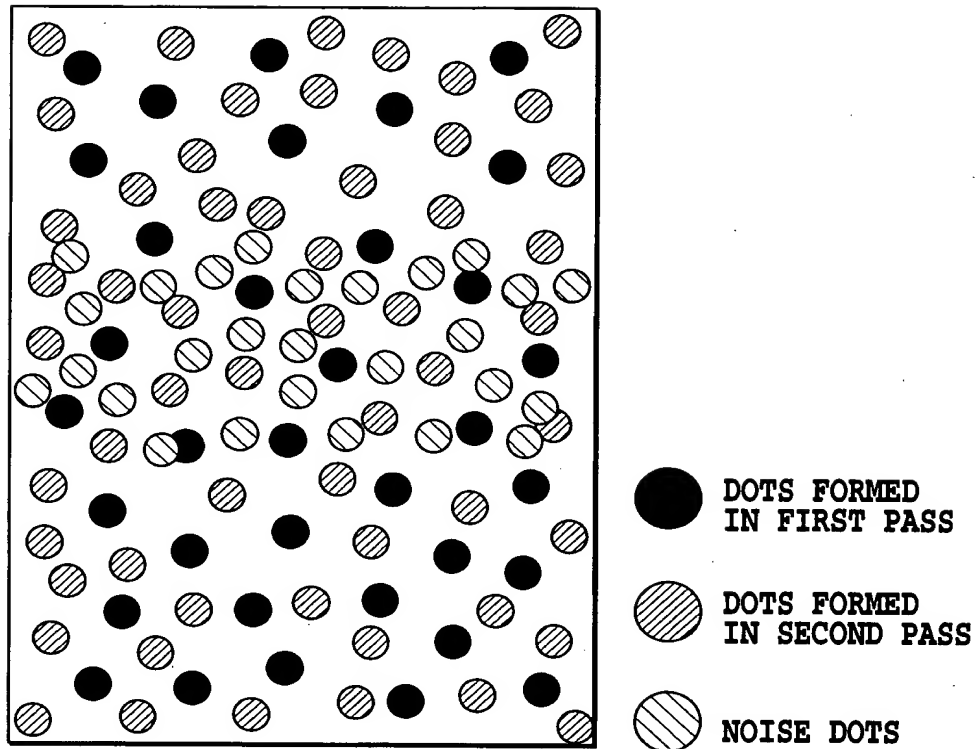
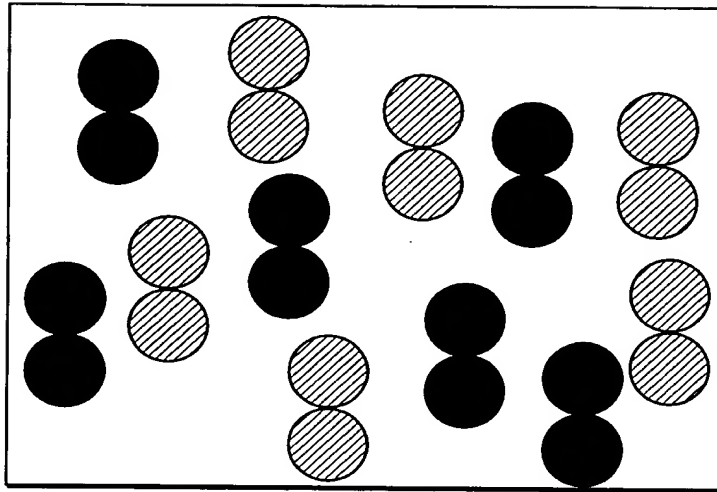


FIG.24

FIRST NEW LINE ;NOISE: 0%
SECOND NEW LINE ;NOISE: 1%
THIRD NEW LINE ;NOISE: 3%
FOURTH NEW LINE ;NOISE: 5%
FIFTH NEW LINE ;NOISE: 3%
SIXTH NEW LINE ;NOISE: 1%
SEVENTH NEW LINE ;NOISE: 0%

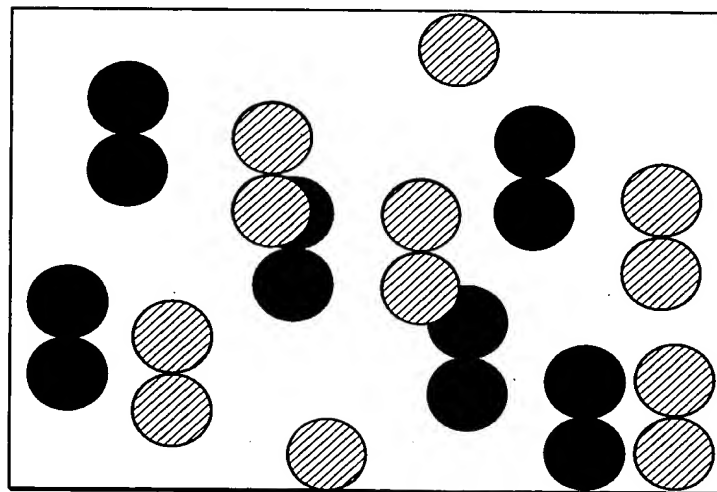
FIG.25

FIG.26A



DOT FORMATION WITHOUT FEEDING ERROR

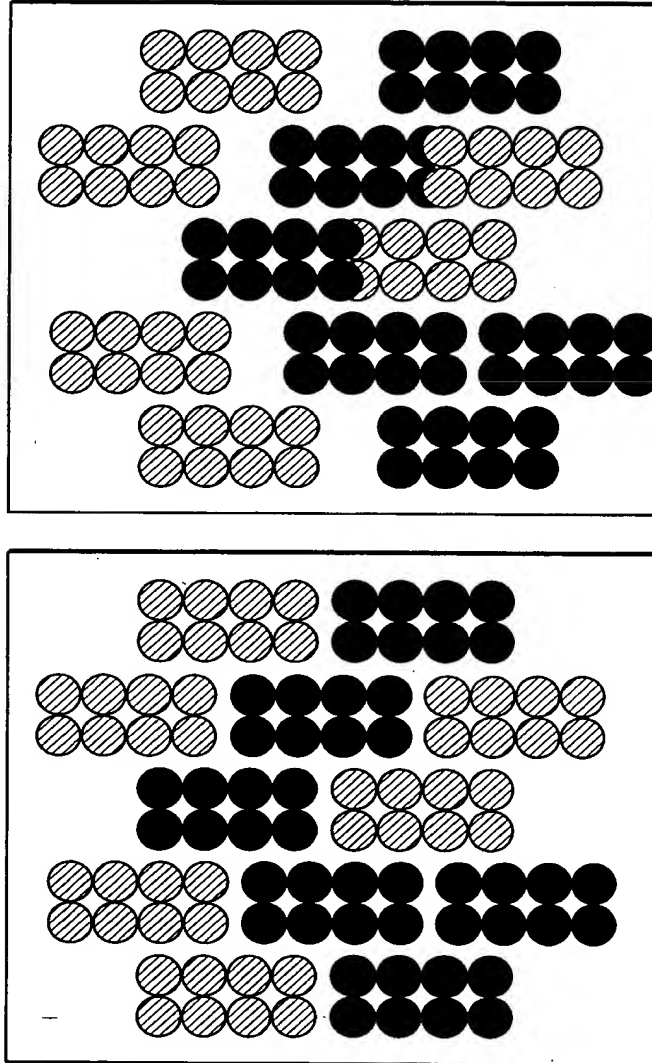
FIG.26B



DOT FORMATION WITH FEEDING ERROR

● DOTS FORMED IN FIRST PASS
 ◐ DOTS FORMED IN SECOND PASS

FIG. 27B

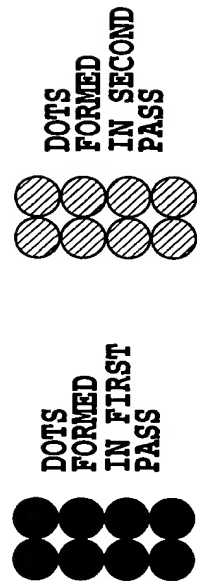


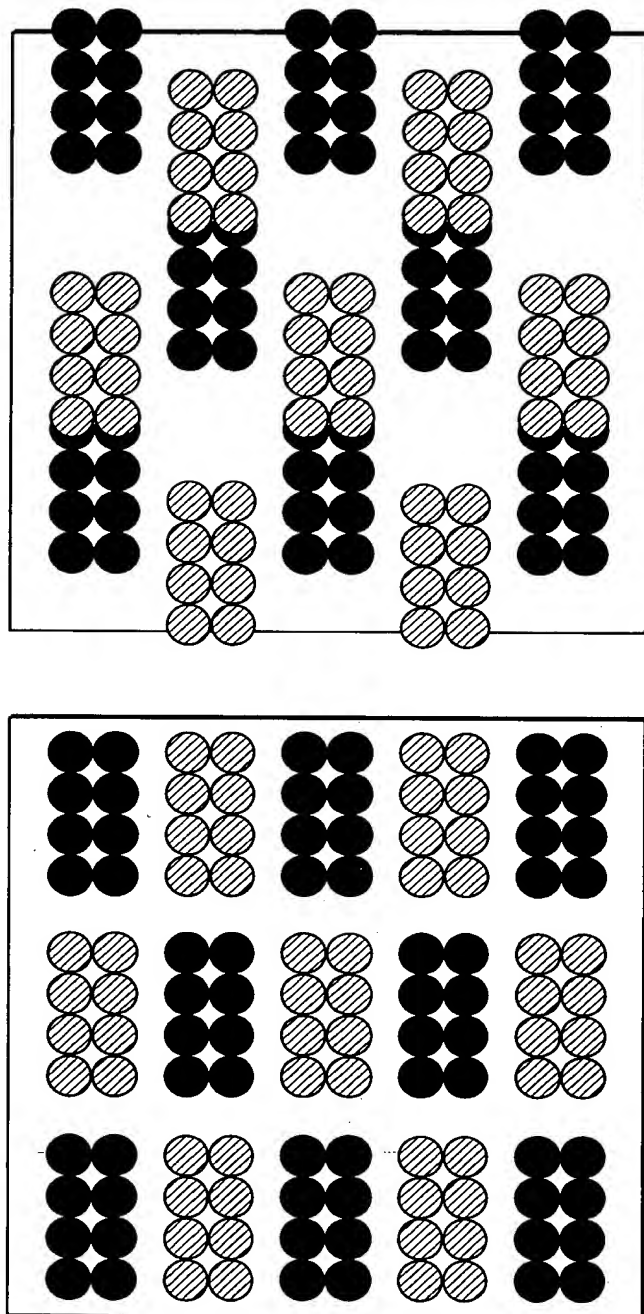
DOT FORMATION WITH
FEEDING ERROR

FIG. 27B

DOT FORMATION WITHOUT
FEEDING ERROR

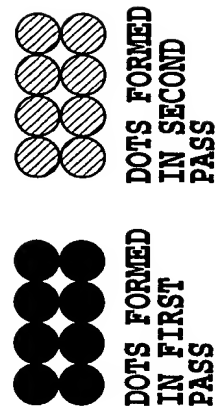
FIG. 27A





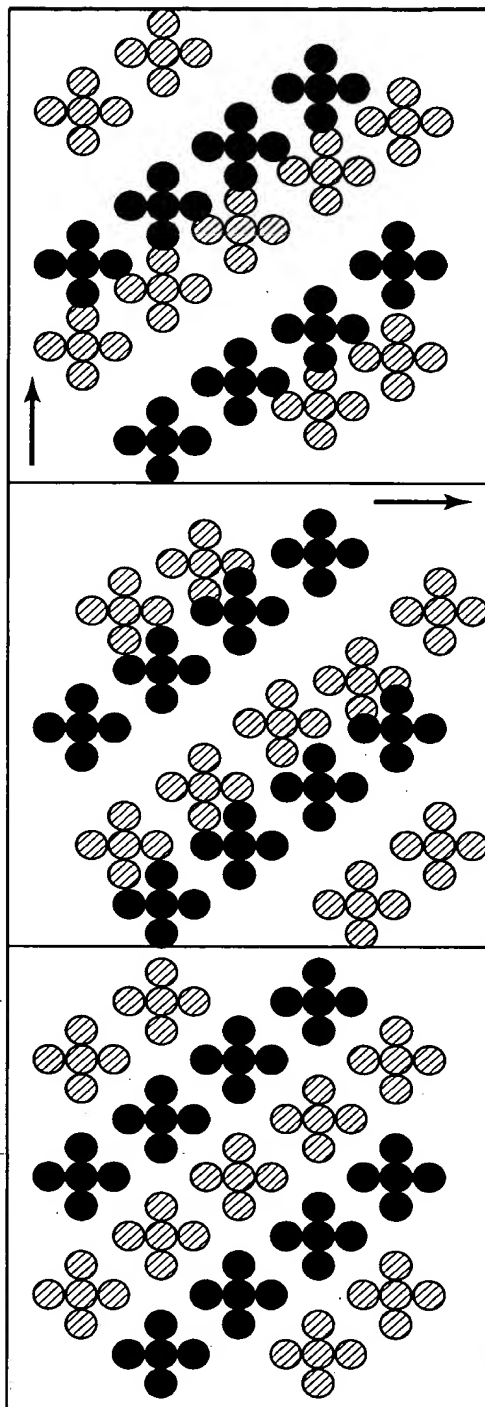
DOT FORMATION WITHOUT ERROR
IN MAIN-SCANNING DIRECTION

FIG.28A



DOT FORMATION WITH ERROR
IN MAIN-SCANNING DIRECTION

FIG.28B



DOT FORMATION
WITHOUT FEEDING ERROR

DOT FORMATION WITH ERROR
IN SUB-SCANNING DIRECTION

DOT FORMATION WITH ERROR
IN MAIN-SCANNING DIRECTION

FIG.29A

FIG.29B

FIG.29C

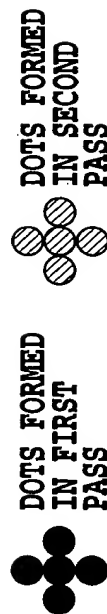
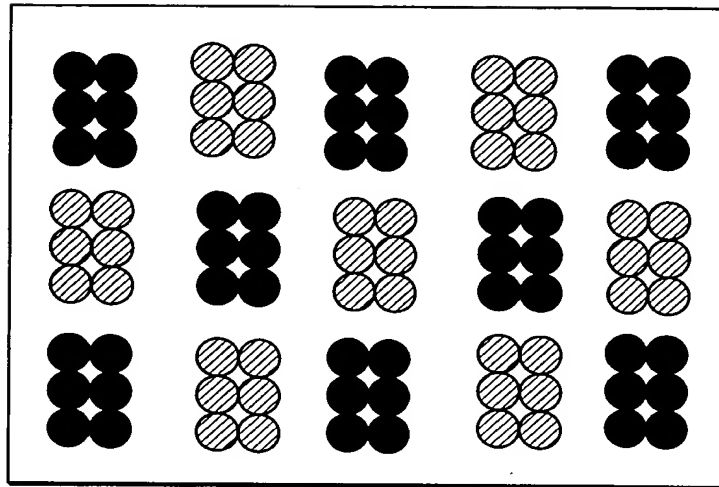
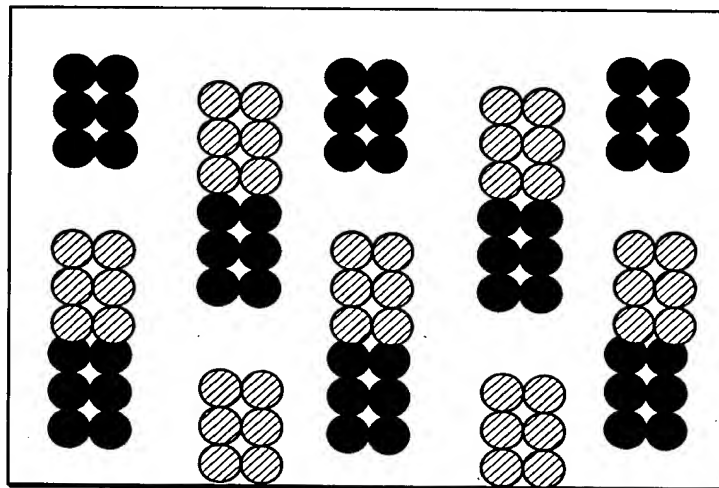


FIG.30A

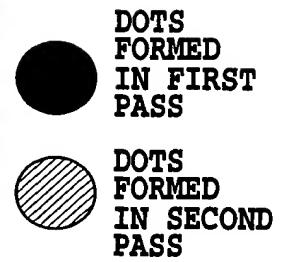


DOT FORMATION WITHOUT FEEDING ERROR

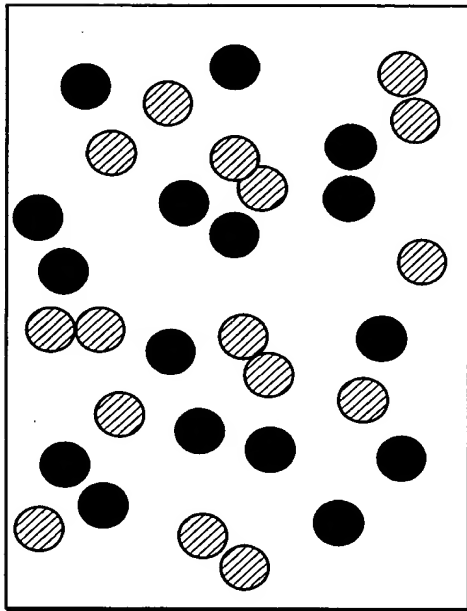
FIG.30B



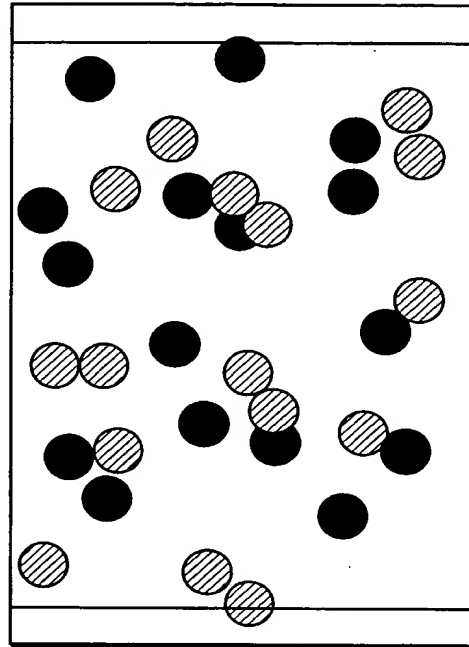
DOT FORMATION WITH FEEDING ERROR



RANDOM DOT FORMATION
(CONTAINING LOW FREQUENCY COMPONENTS)





DOT FORMATION
WITHOUT FEEDING ERROR



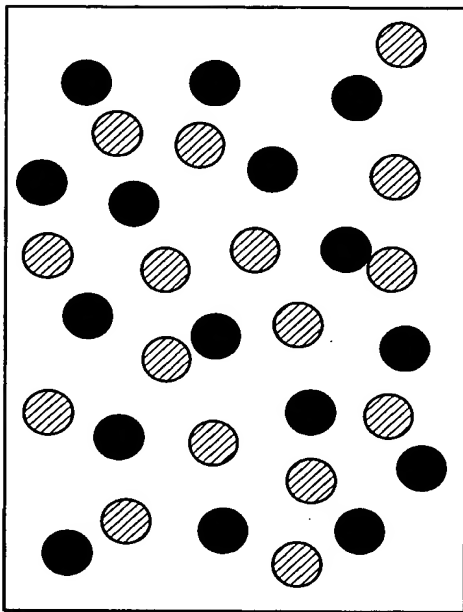
DOT FORMATION
WITH FEEDING ERROR

FIG.31A

FIG.31B

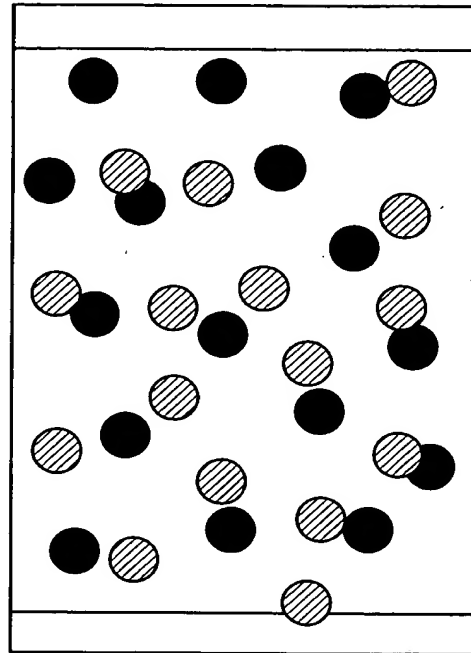
 DOTS FORMED
IN FIRST
PASS
 DOTS FORMED
IN SECOND
PASS

DOT FORMATION WITH USE OF BLUE NOISE
(HIGH FREQUENCY COMPONENTS) MASK



DOT FORMATION
WITHOUT FEEDING ERROR

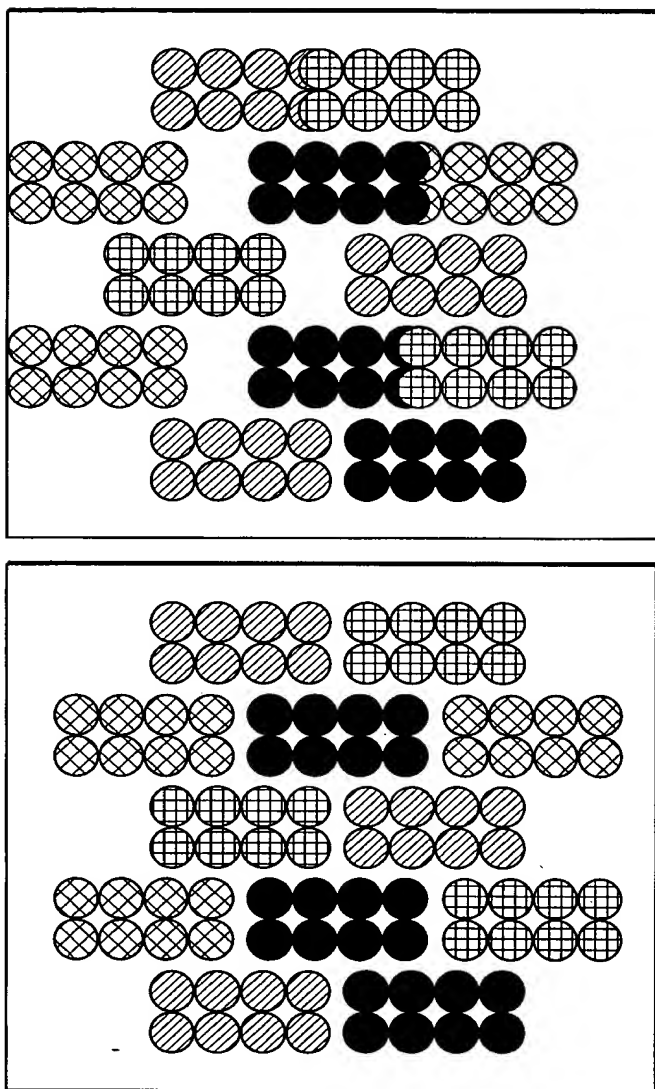
FIG.32A



DOT FORMATION
WITH FEEDING ERROR

FIG.32B

● DOTS FORMED
IN FIRST
PASS
◐ DOTS FORMED
IN SECOND
PASS

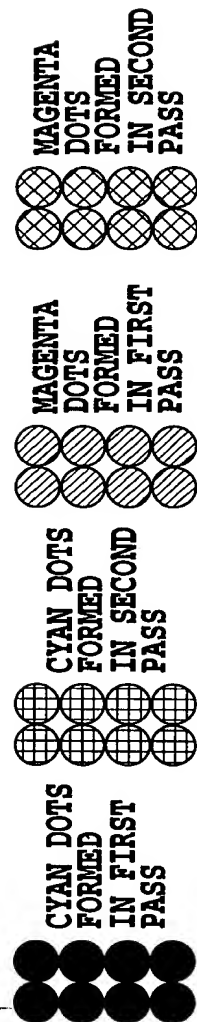


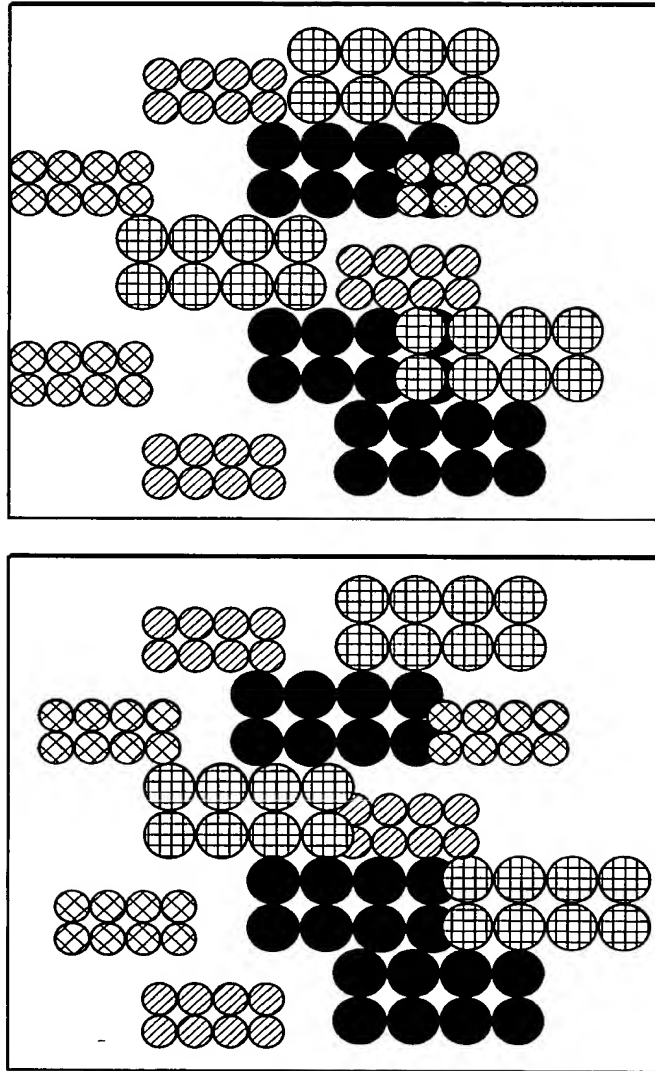
DOT FORMATION WITHOUT
FEEDING ERROR

DOT FORMATION WITH
FEEDING ERROR

FIG. 33A

FIG. 33B





DOT FORMATION WITHOUT
FEEDING ERROR

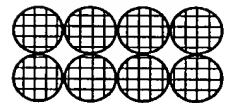
FIG. 34A

DOT FORMATION WITH
FEEDING ERROR

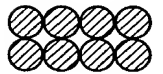
FIG. 34B



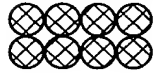
LARGE
DOTS
FORMED
IN FIRST
PASS



LARGE
DOTS
FORMED
IN SECOND
PASS



SMALL
DOTS
FORMED
IN FIRST
PASS



SMALL
DOTS
FORMED
IN SECOND
PASS

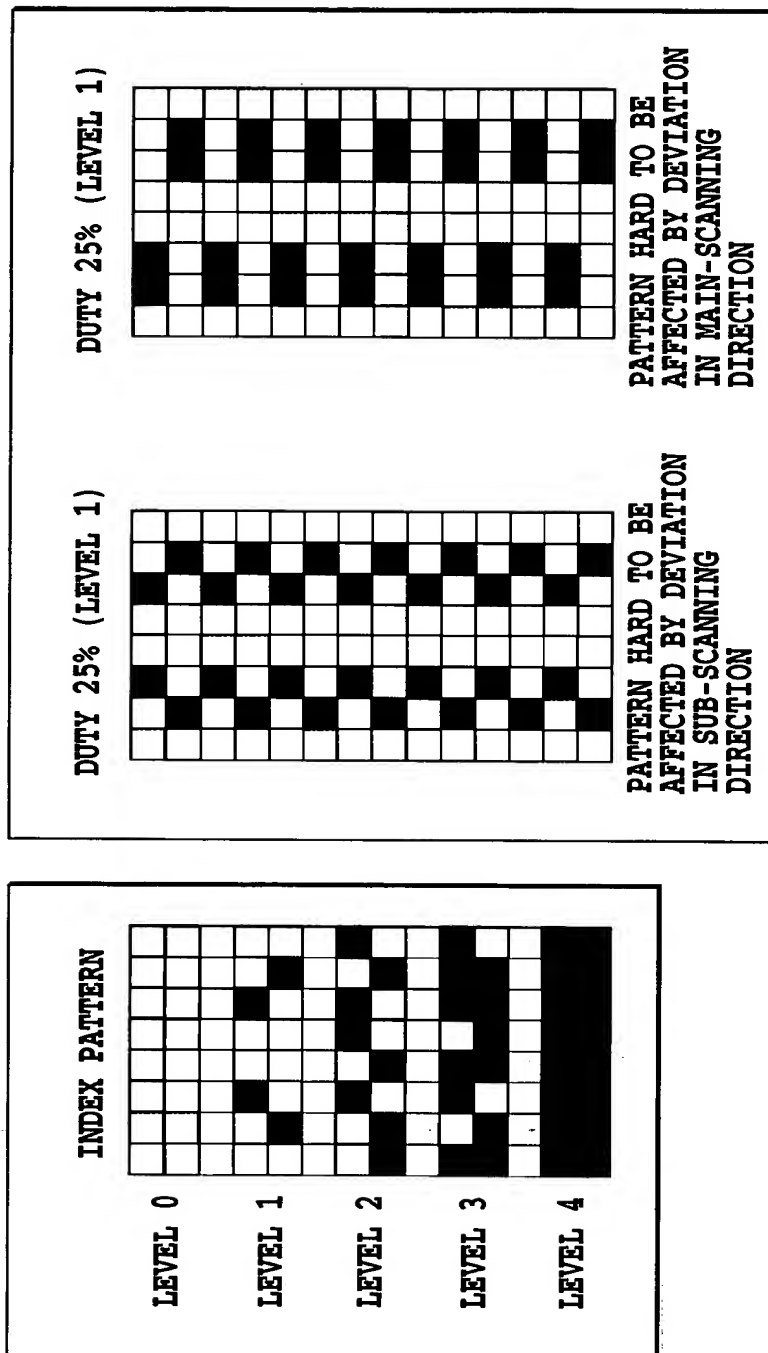


FIG.35A

FIG.35B

NORMAL DIFFUSION
COEFFICIENT

		*	7				
5	3	1	0				

FIG.36A

DIFFUSION
COEFFICIENT USED
FOR CASE OF LARGE
DEVIATION IN
MAIN-SCANNING
DIRECTION

		*	7	5	3	2	1
8	6	5	4	3	2	1	0

FIG.36B

DIFFUSION
COEFFICIENT USED
FOR CASE OF LARGE
DEVIATION IN
SUB-SCANNING
DIRECTION

		*	9	5	2	1	
8	6	5	4	3	1	1	
5	6	3	5	5	6	6	
4	4	3	4	4	5	5	
3	3	3	4	4	3	3	
1	2	6	7	8	9	0	

FIG.36C

* SUBJECT PIXEL

406220 62504000

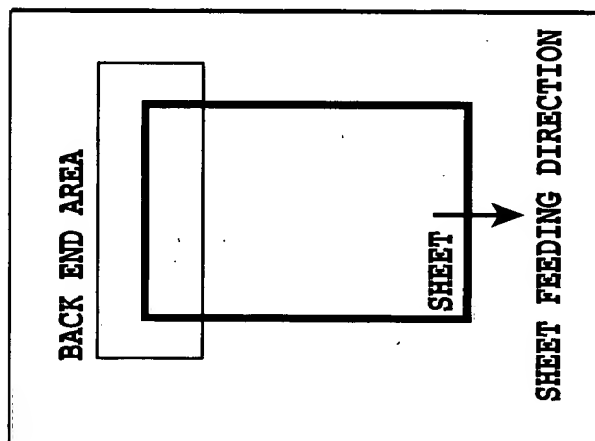


FIG. 37A

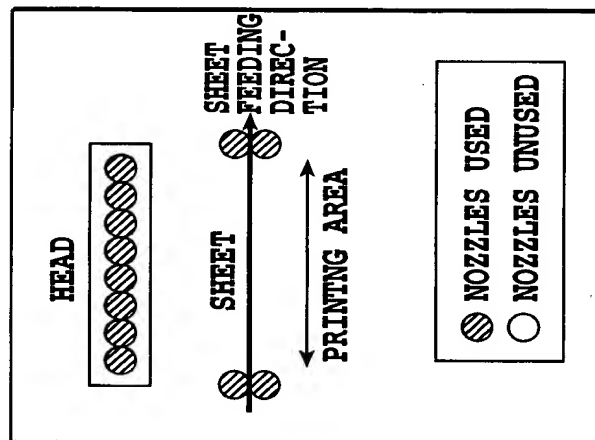


FIG. 37B

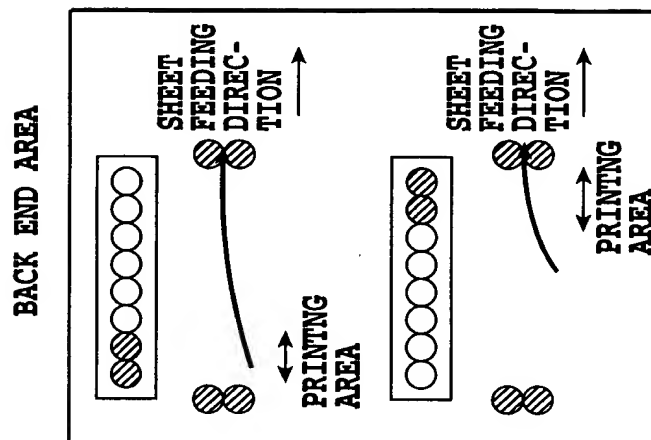
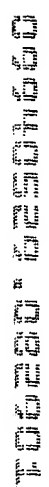


FIG. 37C



$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

63-NOZZLE FEEDING

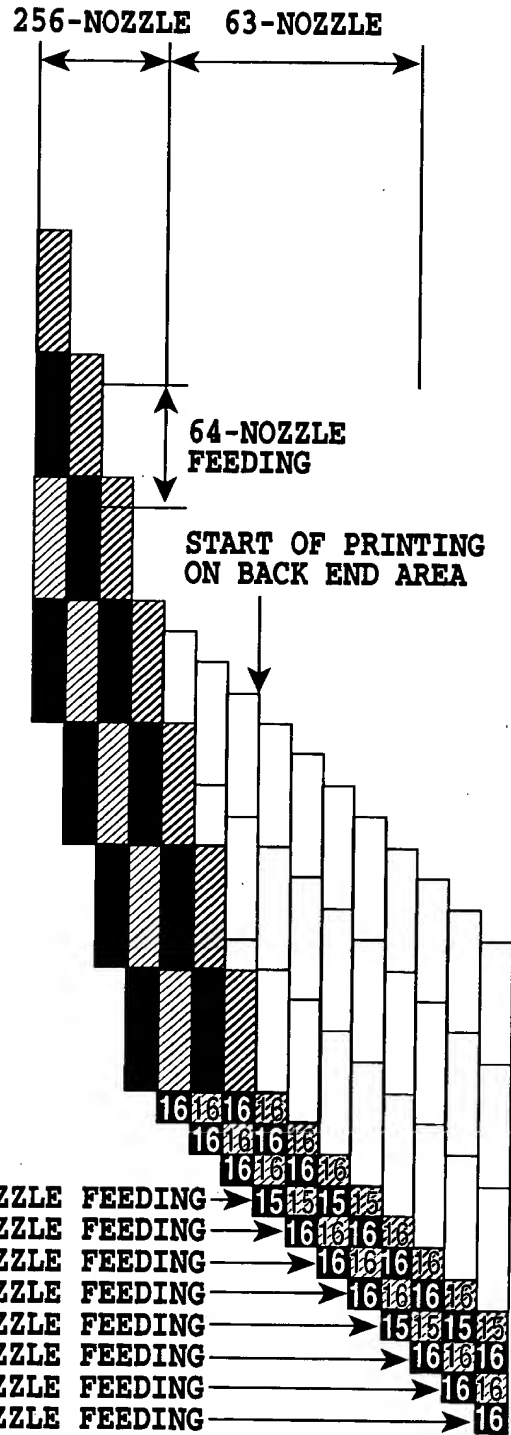


FIG.38B

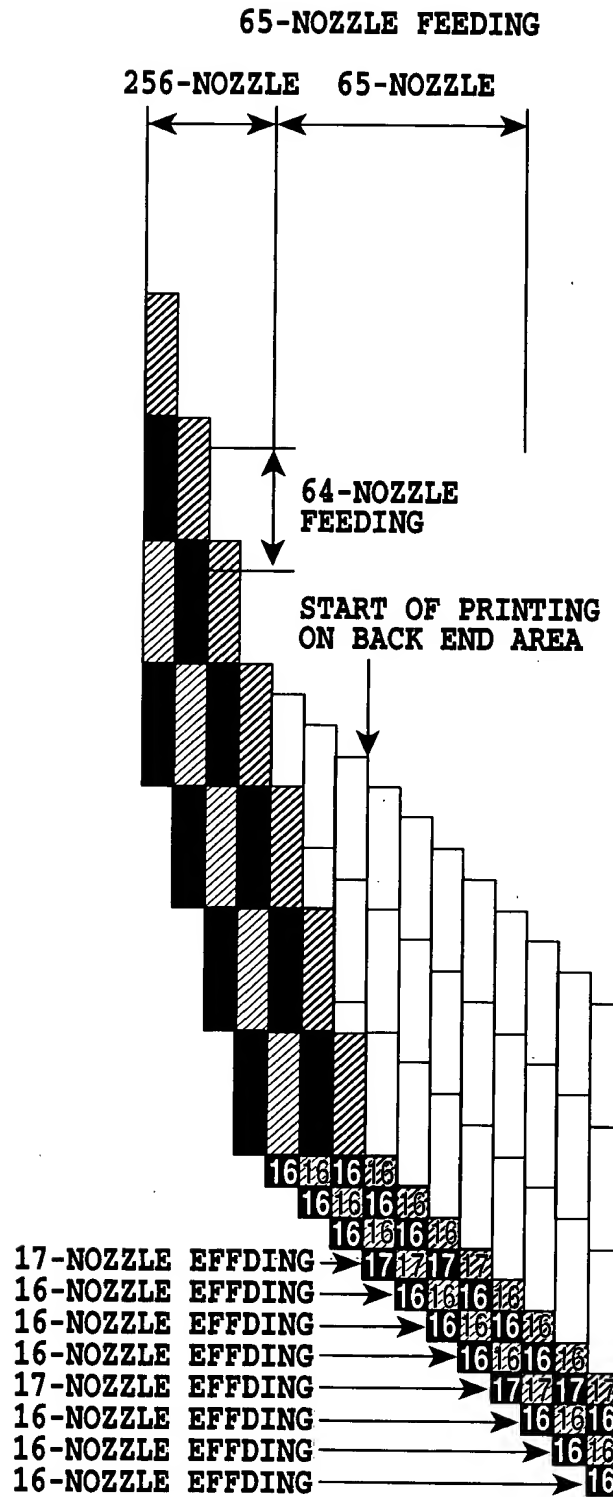


FIG.38C

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FRONT END PROCESS (4-PASS)
64/256-NOZZLE FEEDING

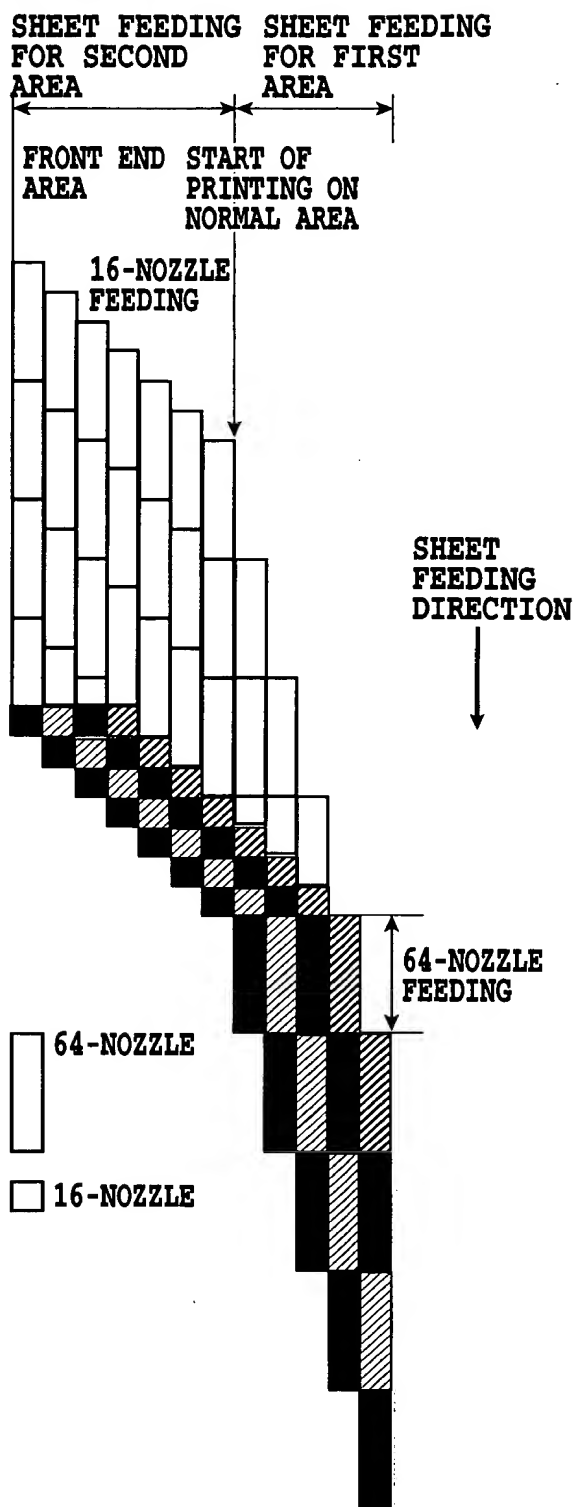


FIG.39A

BACK END PROCESS (4-PASS)
256/64-NOZZLE FEEDING

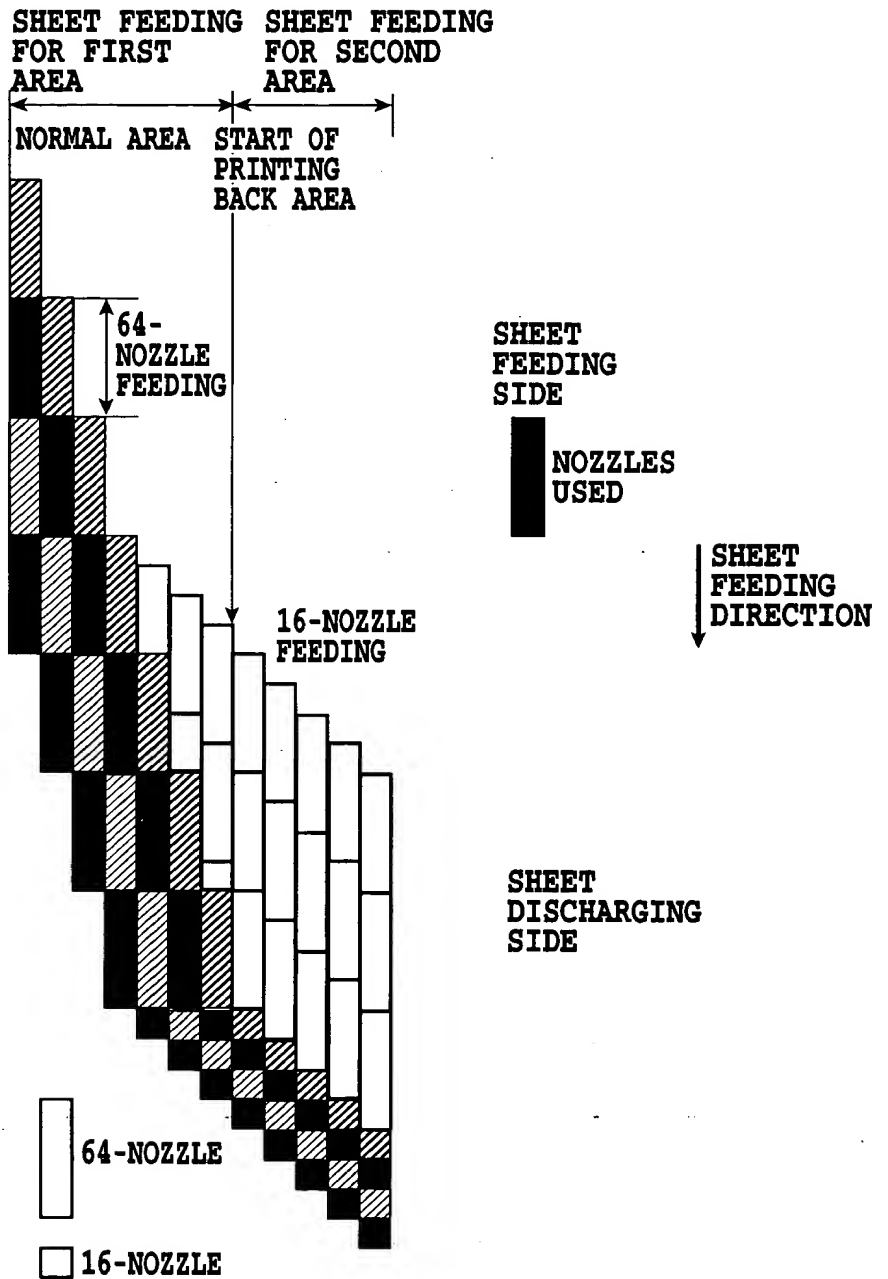


FIG.39B

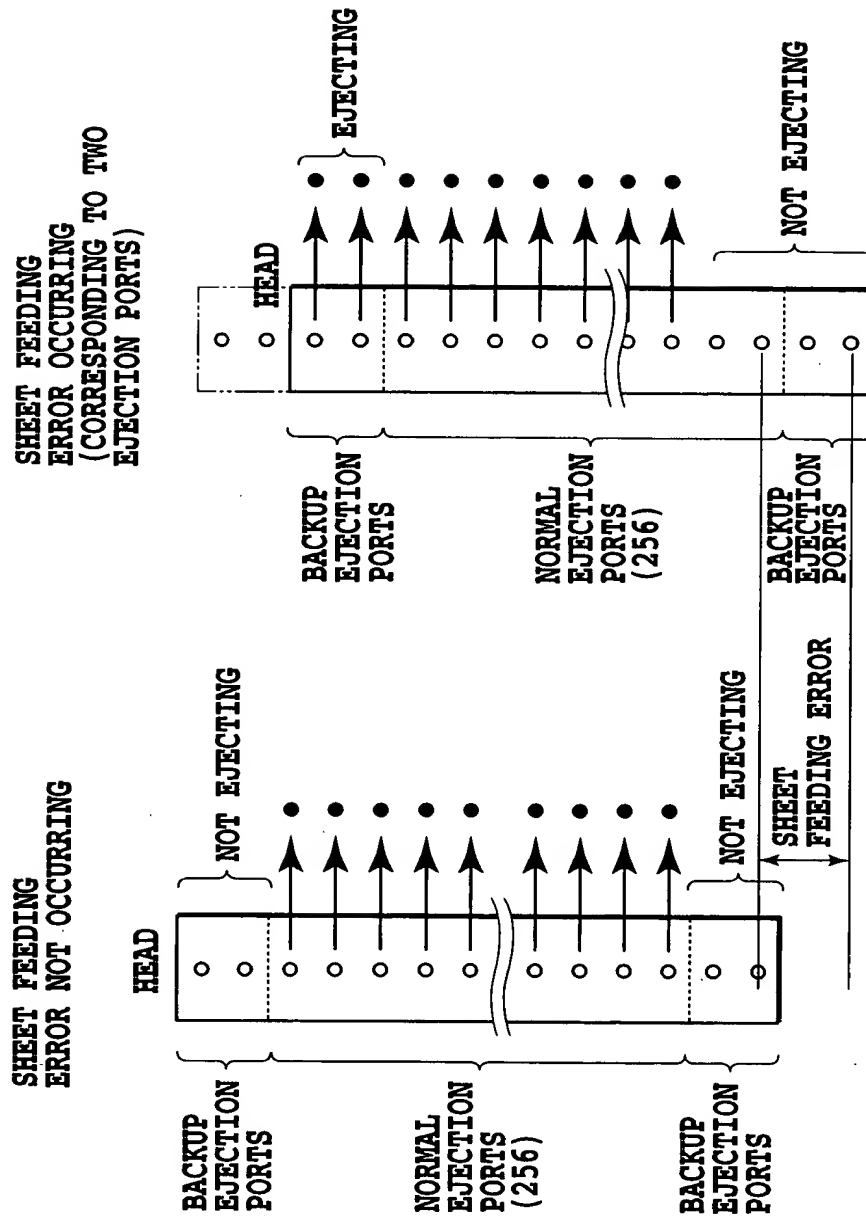


FIG.40

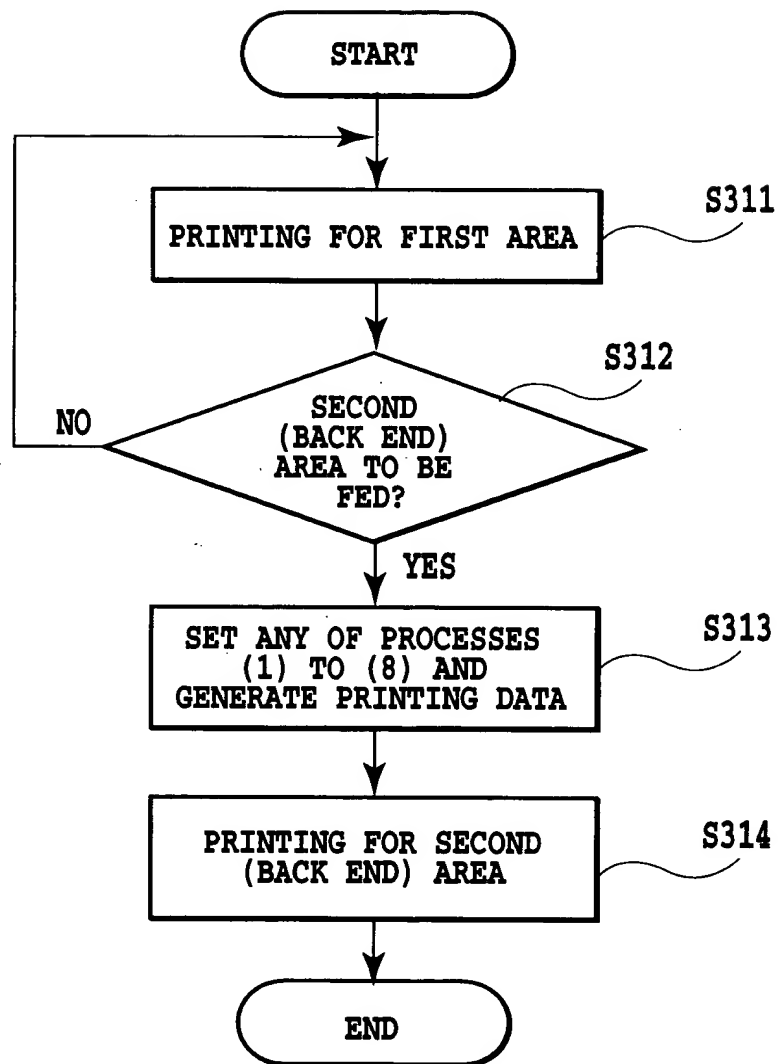


FIG.41

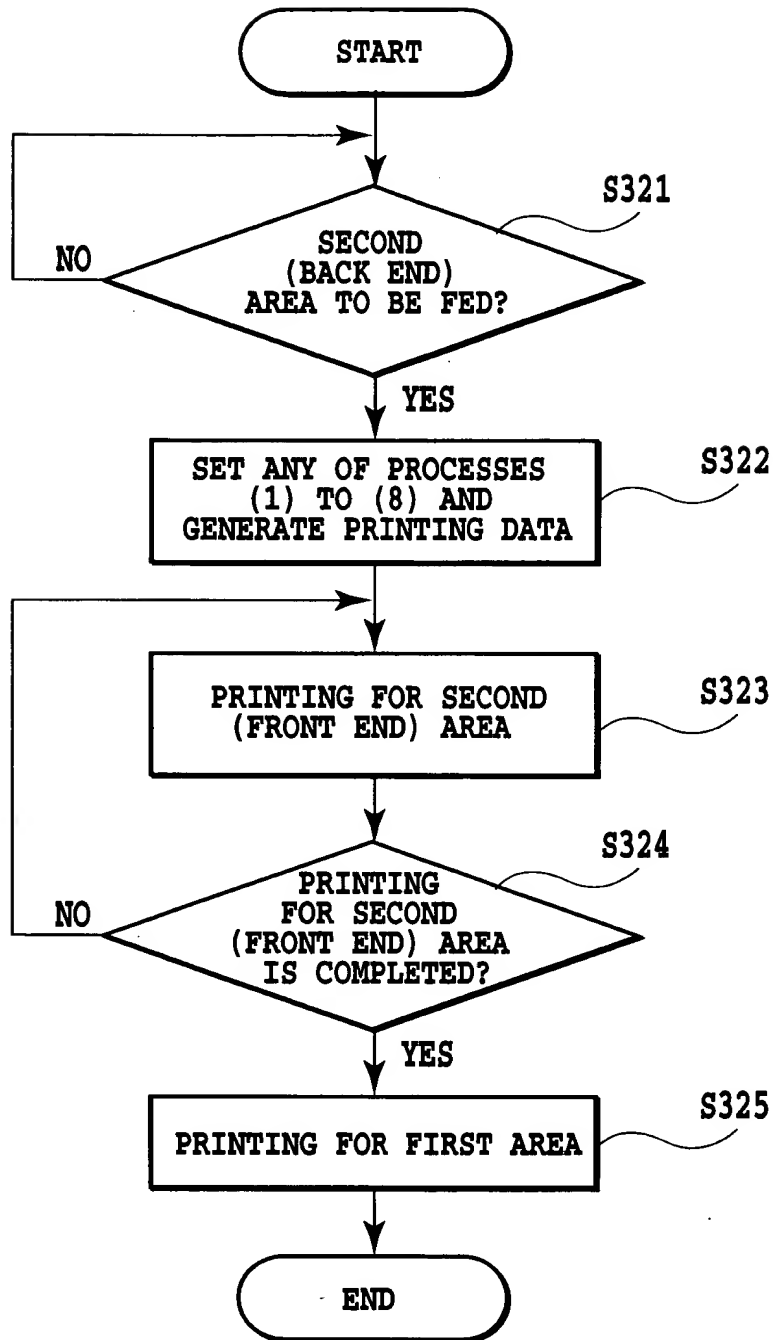


FIG.42

FIG.43A

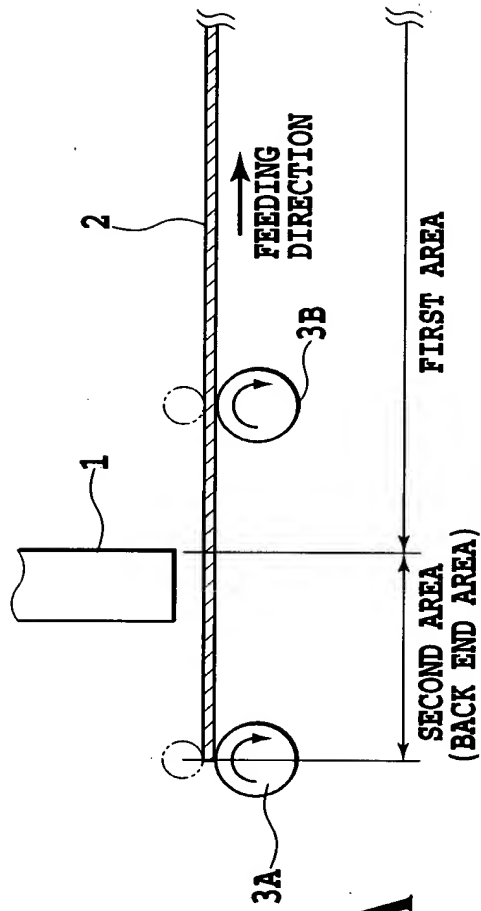


FIG.43B

